

according to the regulation of the European Parliament and the Council (EC) No. 1907/2006 (REACH) as amended

Citric acid monohydrate

Creatio	n date 05/10/2022					
Date of	revision	Version number	2.0			
	N 1. Identification of the substance/mixture and of the company/un	dertaking				
.1.	Product identifier	Citric acid monohydrate				
	Substance / mixture	substance				
	Number	not specified				
	Chemical Name CAS	citric acid monohydrate				
	Number	5949-29-1				
	Index number	607-750-00-3				
	EC number (EINECS)	201-069-1				
	Registration number	01-2119457026-42				
	Other names of the substance					
	Citric acid, Citric acid monohydrate, 2-hydroxypropar	ne-1,2,3-tricarboxylic acid monohydrate				
.2.	Relevant identified uses of the substance or mixture and	l uses advised against				
	Intended use of the substance					
	Food additive, pharmaceutical products, personal care products (cosmetics), products consumer chemistry, formulation of mixtures, laboratory chemicals.					
	Unrecommended use of the substance					
	The product must not be used in ways other than those listed	d in section 1.				
	An exposure scenario is attached to the safety data sheet.					
.3.	Details of the supplier of the safety data sheet					
	Supplier					
	Name or business name	Ekokoza s.r.o				
	Address	Fryčovice 297				
		73945 Fryčovice				
	Identification number (IÿO)	ID: 07508247				
	TIN	420605770002				
	Phone	+ 420003779993				
	E-mail	eshop@ekokoza.cz,				
	Website address					
	E-mail address of the professionally qualified person res Name	ponsible for the safety data sheet Ekokoza s.r.o				
	E-mail	eshop@ekokoza.cz				
4.	Telephone number for emergencies					
	Toxicology Information Center, Clinic of Occupational Medicin 224,915,402.	ne VFN and 1st Faculty of Medicine, UK, Na Bojišt	1, 120 00, Prague 2, phone: 224 919 293 ar			

2.1. Classification of the substance or mixture

Classification of the substance or mixture

Classification of the substance according to Regulation (EC) No. 1272/2008

The substance is classified as dangerous.

Eye Irritation. 2, H319 STOT SE 3, H335

The full text of all classifications and H-phrases is given in section 16.

The most serious adverse physicochemical effects

They are not known.

The most serious adverse effects on human health and the environment

Causes serious eye irritation. May cause respiratory irritation.



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2.2. Marking elements





Signal word Warning

Standard hazard statements

H319 Causes serious eye irritation. H335 May cause respiratory irritation. Instructions for safe handling P261 Avoid breathing dust. P264 Wash hands and affected body parts thoroughly after handling. P280 Wear protective gloves/protective clothing/safety glasses. P305+P351+P338 IF IN EYES: Rinse carefully with water for several minutes. Remove contact lenses, if fitted and if they can be removed easily. Continue rinsing. If eye irritation persists: Get medical attention/treatment.

P337+P313

2.3. Other hazards

The substance does not have endocrine-disrupting properties in accordance with the criteria set out in Commission Regulation v delegated powers (EU) 2017/2100 or in Commission Regulation (EU) 2018/605. The substance does not meet the criteria for PBT substances or vPvB in accordance with Annex XIII, Regulation (EC) No. 1907/2006 (REACH), as amended.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characteristics The substance below.

Identification numbers	Substance name	Content in % weight	Classification according to regulation (EC) no. 1272/2008	Note
Index: 607-750-00-3 CAS: 5949-29-1 EC: 201-069-1 Registration number: 01-2119457026-42	the main component of a substance citric acid monohydrate	>98	Eye Irritation. 2, H319 STOT SE 3, H335	1

Comment

Substance for which exposure limits are established.

The full text of all classifications and H-phrases is given in section 16.

SECTION 4: First aid measures

4.1. Description of first aid

Take care of your own safety. In case of health problems or in case of doubt, inform the doctor and provide him information from this safety data sheet.

When inhaled

Stop the exposure immediately, move the victim to fresh air. Protect the victim from catching cold. Ensure medical treatment if irritation, shortness of breath or other symptoms persist.

In contact with skin

Put away the stained clothing. Wash the affected area with plenty of lukewarm water if possible. If there was no injury skin, it is also advisable to use soap, soap solution or shampoo. Get medical treatment if skin irritation persists.

On contact with the eye

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Immediately flush the eyes with a stream of running water, open the eyelids (perhaps by force); if the affected person wears contact lenses, remove them immediately. Rinse for at least 10 minutes. Get medical, professional treatment if possible.



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	When ingested			
	Rinse the oral cavity with water and drink 2-5 dl of water. Get medica	I treatment for a person who has health	problems.	
4.2.	Most important symptoms and effects, both acute and delayed			
	When inhaled			
	May cause respiratory irritation.			
	In contact with skin			
	They are not expected.			
	On contact with the eyes			
	Causes serious eye irritation.			

When ingested

Irritation, nausea.

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Fire extinguishers
Suitable extinguishing agents

Alcohol-resistant foam, water jet, water mist. Unsuitable fire extinguishers

Water - full flow.

5.2. Special hazards arising from the substance or mixture

In contact with air, dust can form an explosive mixture.

5.3. Instructions for firefighters

Do not inhale combustion fumes. Use self-contained breathing apparatus and chemical protective suit. Closed containers with cool the product with water near a fire. Do not let the contaminated extinguishing agent escape into the sewers, surface and groundwater.

SECTION 6: Accidental release measures

6.1. Personal protection measures, protective equipment and emergency procedures

Use personal protective work equipment. Follow instructions contained in sections 7 and 8. Do not inhale

dust. Avoid contact with skin and eyes.

6.2. Environmental protection measures

Avoid soil contamination and release to surface or ground water.

6.3. Methods and material for containment and cleaning up

Collect mechanically (sweep, vacuum), collect in well-closed containers and dispose of according to section 13. In case of spillage large quantities of the product, inform the fire department and other competent authorities. After removing the product, wash the contaminated instead of a large amount of water.

6.4. Link to other sections

See sections 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid dust generation/swirling. Avoid exceeding the highest permissible concentration for the working atmosphere. Do not inhale dust. Avoid contact with skin and eyes. Wash hands and affected body parts thoroughly after handling. Use it only outdoors or in well-ventilated areas. Use personal protective equipment according to section 8. Take care to the applicable legal regulations on safety and health protection.

7.2. Conditions for safe storage of substances and mixtures, including incompatible substances and mixtures

Store in tightly closed containers in cool, dry and well-ventilated places designated for this purpose. Store locked. Keep the package tightly closed.

Contents	Type of packaging	Packaging material
25 kg	bag / sack bag /	HDPE
500 kg	sack bag / sack	PP
1000 kg		PP

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Storage temperature		minimum 10 °C. maximum 30 °C	

7.3.

Specific end/specific end uses

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Czech Republic government regulation 361/2007 Coll. as an				
Name of substance	Туре	Value	Conversion to ppm	
(ingredient) citric acid monohydrate (CAS: 5949-29-1)	PELc	4.0 mg/m ³		

Czech Republic Government Regulation			vernment Regulation 41/2020 Col
Name of substance	Туре	Value	Conversion to ppm
(ingredient) citric acid (CAS: 5949-29-1)	PELc	4.0 mg/m ³	

PNEC

citric acid monohydrate

Exposure route	Value	Determination of value	Source
Freshwater environment	0.44 mg/l		
Sea water	0.044 mg/l		
Microorganisms in cleaning plants wastewater	1000 mg/l		
Freshwater sediments	34.6 mg/kg dry weight sediment		
Marine sediments	3.46 mg/kg dry matter sediment		
Land (agricultural)	33.1 mg/kg dry weight soil		

8.2. Limiting exposure

Observe the usual measures to protect health at work. Ensure adequate ventilation. Avoid contact with eyes and skin. Keep away from food, drink and feed. Do not eat, drink or smoke while working. After work and before a meal break and rest, wash your hands thoroughly with soap and water.

Eye and face protection

Goggles.

Skin protection

Hand protection: Protective gloves resistant to the product. Follow the recommendations of the specific glove manufacturer when choosing a suitable one thickness, material and permeability. In case of skin contamination, wash it thoroughly.

Respiratory protection

Half mask with dust filter when exposure limits of substances are exceeded or in a poorly ventilated environment.

Thermal hazard

Not listed.

Limiting environmental exposure

Observe the usual environmental protection measures, see point 6.2.

Additional information

An exposure scenario is attached to the safety data sheet.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Solid state Color colorless, white Odor

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odorless



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	Melting point/freezing point	153°C		
	Boiling point or initial boiling point and boiling range Combustibility	cannot be determined - decomp not flammable	osition occurs	
	Lower and upper explosive limits Flash-point	the data is not available not determined		
	Auto-ignition temperature	the data is not available >175 °C		
	temperature Kinematic viscosity	1.5-2 (1-10% solution) the data is not available		
	Solubility in water	soluble		
	Partition coefficient n-octanol/water (log value)	log Pow -1.67		
	Steam pressure	<0.001 hPa at 25 °C		
	Density and/or relative density			
	density	1.54 g/cm ³ at 20 °C		
	Form	solid: particles / powder		
9.2.	More information			
	Oxidizing properties	does not have oxidizing pro	perties	
	Explosive properties	The product is not explos mixtures.	ive, but may form explosives with air	
	Dust class: St(H)1			

SECTION 10: Stability and reactivity 10.1.

Reactivity

The substance is non-flammable.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

They are not known.

10.4. Conditions to avoid

Under normal use, the product is stable, does not decompose. Protect from flames, sparks, overheating and from cold.

10.5. Incompatible materials

Protect from strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

They do not arise under normal use. At high temperatures and in case of fire, dangerous products such as oxide are formed carbon dioxide and carbon dioxide

SECTION 11: Toxicological information

11.1. Information on the hazard classes defined in Regulation (EC) No. 1272/2008

not specified

Acute toxicity

Based on the available data, the classification criteria are not met.

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Exposure path Param	eter	Method	Value	Time exposure	Species	Sex	Source
Orally	LD50		5400 mg/kg		Mouse		acid Iemon anhydrous
Orally	LD50		3000 mg/kg		Rat		acid Iemon anhydrous



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citric acid monohydrate Time Method Value Sex Exposure path Param Species eter Source exposure Dermal LD50 acid 2700 mg/kg Mouse lemon anhydrous Dermal LD50 **OECD 402** >2000 mg/kg Rat

Skin corrosion/irritation

Based on the available data, the classification criteria are not met.

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Exposure route	Result	Exposure time	Species	Source
Skin	Mildly irritating	72 hours	Rabbit	acid Iemon anhydrous

Serious eye damage / eye irritation

Causes serious eye irritation.

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Exposure route	Result	Exposure time	Species	Source
Eye	Strongly irritating	72 hours	Rabbit	acid Iemon anhydrous

Respiratory sensitization / skin sensitization

Based on the available data, the classification criteria are not met.

Germ cell mutagenicity

Based on the available data, the classification criteria are not met.

Carcinogenicity

Based on the available data, the classification criteria are not met.

Reproductive toxicity

Based on the available data, the classification criteria are not met.

Specific target organ toxicity - single exposure

Based on the available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure

Based on the available data, the classification criteria are not met.

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Way exposure	Parameter	Value	Exposure time Res	ult	Species	Sex	Source
	NOAEL	4000 mg/kg TH/day	10 day		Rat		acid Iemon anhydrous
	NOAEL	1200 mg/kg TH/day	2 year		Rat		acid Iemon anhydrous

Inhalation hazard

Based on the available data, the classification criteria are not met.

11.2. Information on additional hazards

not specified

SECTION 12: Ecological information

12.1. Toxicity



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Acute toxicity

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Parameter	Value	Exposure time	Species	Environment	Source
LC50	>440 mg/kg	96 hours	Fish (Leuciscus idus)		
LC50	1516 mg/kg	96 hours	Fish (Lepomis macrochirus)		acid Iemon anhydrous
EC50	120 mg/kg	72 hours	Daphnia (Daphnia great)		acid Iemon anhydrous
EC50	>1000 mg/kg	4 p.m	Microorganisms (Pseudomonas putida)		acid Iemon anhydrous

12.2. Persistence and degradability

Biodegradability

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Parameter	Value	Exposure time	Environment	Result	Source
	98%	2 day		Easy biologically degradable	acid Iemon anhydrous

12.3. Bioaccumulative potential

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Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
BCF	0.01					acid Iemon anhydrous
Log Pow	-1.67					

Low.

12.4. Mobility in soil

Data not available.

12.5. Results of PBT and vPvB assessment

The product does not contain substances meeting the criteria for PBT or vPvB substances in accordance with Annex XIII, Regulation (EC) no. 1907/2006 (REACH) as amended.

12.6. Endocrine-disrupting properties

not specified

12.7. Other adverse effects

Not listed.

SECTION 13: Disposal considerations

13.1. Waste management methods

Follow the applicable waste disposal regulations. Store the unused product and soiled packaging in the designated areas containers for waste collection and hand over for disposal to an authorized waste disposal person (a specialized company) who has authorization for this activity. Do not pour the unused product down the drain. It must not be removed together with communal wastes. Empty packaging can be used for energy in a waste incinerator or stored in a landfill of the appropriate classification. Perfectly cleaned packaging can be sent for recycling.

Waste legislation

Act No. 545/2020 Coll., amending Act No. 477/2001 Coll., on packaging and amending certain laws (Act on Packaging), as amended. Act No. 541/2020 Coll., on waste, as amended. Decree No. 8/2021 Coll., on the Catalogue of waste and assessment of waste properties (Waste Catalogue). Decision 2000/532/EC establishing a list of wastes, as amended. Decree No. 273/2021 Coll., on the details of waste management.



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SECTIC	ON 14: Transport informat	ion			
14.1. U	N number or ID number				
	not subject to transport re	egulations			
14.2.	Official (UN) shipping n not relevant	ame			
14.3.	Transport hazard class not relevant	(es).			
14.4. Pa	ackaging group not relevant				
14.5. D	anger to the environment not relevant				
14.6.	Special safety measure not specified	s for users			
14.7. M	aritime bulk transport acc not relevant	ording to IMO instruments			
SECTIC	ON 15: Regulatory Informa	ition			
15.1. Sa	afety, health and environn	nental regulations/legislation	າ specific for the substance or mixture		

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 on the registration, assessment, authorization and restriction of chemical substances, on the establishment of the European Agency for Chemical Substances, on the amendment of Directive 1999/45/EC and on the repeal Council Regulation (EEC) No. 793/93, Commission Regulation (EC) No. 1488/94, Council Directive 76/769/EEC and Commission Directive 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation of the European Parliament and of the Council (EC) No. 1272/2008 of 16 of December 2008 on the classification, labeling and packaging of substances and mixtures, on the amendment and repeal of directives 67/548/EEC and 1999/45/EC and

amending Regulation (EC) No. 1907/2006, as amended. Act No. 350/2011 Coll., on Chemical Substances and Chemical Mixtures and on the amendment of some laws (chemical law). Act No. 258/2000 Coll., on the protection of public health, as amended. Government Regulation No. 361/2007 Coll., which establishes the conditions for health protection at work, as amended. Decree No. 190/2018 Coll., which amends Decree No. 415/2012 Coll., on the permissible level of pollution and its detection and on the implementation of certain other provisions of the Air Protection Act, as amended. Act No. 541/2020 Coll., on waste, v valid wording. Act No. 201/2012 Coll., on air protection, as amended. Decree No. 432/2003 Coll., which establishes conditions for classifying works into categories, limit values of biological exposure test indicators, sampling conditions of biological material for carrying out biological exposure tests and requirements for reporting work with asbestos and biological agent, as amended.

15.2. Chemical safety assessment

It was done.

SECTION 16: Further information

List of standard hazard statements u	sed in the safety data sheet
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
List of safe handling instructions use	ed in the safety data sheet
P261 Avoid breathing dust.	
P264	Wash hands and affected body parts thoroughly after handling.
P280	Wear protective gloves/protective clothing/safety glasses.
P305+P351+P338	IF IN EYES: Rinse carefully with water for several minutes. Remove contact lenses, if fitted and if they can be removed easily. Continue rinsing.
P337+P313	If eye irritation persists: Get medical attention/treatment.
Additional information important from the	he point of view of safety and protection of human health
The product may not - without the speci	al consent of the manufacturer/importer - be used for a purpose other than that specified in section 1.
The user is responsible for compliance	with all related health regulations.
Legend to abbreviations and acrony	ns used in the safety data sheet
ADR	European agreement on the international transport of dangerous goods by road
BCF	Bioconcentration factor
TIME	Chemical Abstracts Service
CLP	Regulation (EC) No. 1272/2008 on classification, labeling and packaging of substances and mixtures

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EC50	The concentration of a substance at which 50% of the population is affected				
EINECS	European list of existing traded chemical substances				
EmS	Contingency plan				
EC	The EC number is a numerical identifier of substances on the EC list				
EU	European Union				
EuPCS	European product categorization system				
IATA	International Air Transport Association				
IBC	International Code for the Construction and Equipment of Ships Carrying Dangerous Goods in Bulk chemicals				
ICAO	International Civil Aviation Organization				
IMDG	International maritime transport of dangerous goods				
INCI	International nomenclature of cosmetic ingredients				
ISO	International Organization for Standardization				
IUPAC	International Union of Pure and Applied Chemistry				
LC50	Lethal concentration of a substance that can be expected to cause the death of 50% of the population				
LD50	Lethal dose of a substance that can be expected to cause the death of 50% of the population				
loa Kow	Octanol-water partition coefficient				
MARPOL	International Convention for the Prevention of Pollution from Ships				
NOAEL	No-observed-adverse-effect dose value				
NPK	The highest permissible concentration				
OEL	Exposure limits in the workplace				
PBT	Persistent bioaccumulative and toxic				
PEL	Permissible exposure limit				
PNEC	An estimate of the concentration at which no adverse effects occur				
ppm	Number of particles per million (millionth)				
REACH	Registration evaluation authorization and restriction of chemical substances				
RID	Agreement on the transport of dangerous goods by rail				
UN	The four-digit identification number of the substance or article taken from the UN Model Regulations				
UVCB	A substance of unknown or variable composition, a complex reaction product, or biological material				
VOCs	Volatile organic compounds				
vPvB	Highly persistent and highly bioaccumulative				
Eye Irritation.	Eye irritation				
HUNDRED	Specific target organ toxicity - single exposure				
Training Guidelines Familiarize workers with the manipulations with the prod	recommended method of use, mandatory protective equipment, first aid and prohibited items uct.				
Recommended use restric not specified	tions				
Information on data sourc	es used in compiling the safety data sheet				
Regulation of the European Council (EC) No. 1272/2008	Parliament and of the Council (EC) No. 1907/2006 (REACH), as amended. Regulation of the European Parliament a 3, as amended. Act No. 350/2011 Coll., on chemical substances and chemical mixtures, in force				
wording. Data from the man	ufacturer of the substance/mixture, if available - data from the registration documentation.				
Changes made (which info	ormation was added, deleted or modified)				
Version 2.0 replaces version	1.0 BL dated 06/23/2017. New edition.				
Additional information					

Data taken from the manufacturer/supplier's safety data sheet.

Declaration

The safety data sheet contains information to ensure safety and health protection at work and environmental protection. The given data correspond to the current state of knowledge and experience and are in accordance with valid legal regulations. They cannot be considered as a guarantee of suitability and usability of the product for a specific application.

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Addendum: Identified	Addendum: Identified Use						
Name	Categories use	Product category Process	category	Category subjects	Release to the environment	SPERC	
Fabric production	SU8	PC19	PROC1, PROC2, PROC3, PROC4, PROC8b		ERC1		
Use as intermediate SU8, SU9		PC19	PROC1, PROC2, PROC3, PROC4, PROC8b		ERC6a		
Formulation of preparations	SU5, SU10, SU13, SU20	PC1, PC3, PC9a, PC9b, PC9c, PC12, PC18, PC30, PC31, PC35, PC39	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC13, PROC14, PROC15, PROC19		ERC1, ERC2, ERC3, ERC4		
Personal care	SU20	PC2, PC39	PROC10, PROC11, PROC19	AC8	ERC8a, ERC11a		
Personal care	SU20	PC2, PC39	PROC10, PROC11, PROC19	AC8	ERC8a, ERC11a		
Personal care	SU20	PC2, PC39		AC8	ERC8a, ERC11a		
Use in cleaning agents	SU3	PC3, PC28, PC31, PC35, PC36, PC37	PROC2, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13	AC8, AC35	ERC2, ERC4, ERC8a, ERC8b, ERC9a, ERC9b		
Use in cleaning agents	SU3	PC3, PC28, PC31, PC35, PC36, PC37	PROC1, PROC4, PROC8a, PROC9, PROC10, PROC11, PROC13, PROC19	AC8, AC35	ERC2, ERC4, ERC8a, ERC8d, ERC9a, ERC9b		
Use in cleaning products	SU21	PC3, PC28, PC31, PC35, PC36, PC37		AC8, AC35	ERC8a, ERC8d, ERC9a, ERC9b		
Paper industry	SU6b	PC26	PROC5, PROC8a		ERC4		
Construction application	SU2a, SU2b, SU10, SU19		PROC2, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC14, PROC19, PROC21, PROC24	AC4	ERC5, ERC8c, ERC8f, ERC10a, ERC10b, ERC11a, ERC11b, ERC12a		
Construction application	SU2a, SU2b, SU10, SU19		PROC2, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC14, PROC19, PROC21, PROC24	AC4	ERC5, ERC8c, ERC8f, ERC10a, ERC10b, ERC11a, ERC11b, ERC12a		
Construction application	SU2a, SU2b, SU10, SU19	PC1, PC9b		AC4	ERC8c, ERC8f, ERC10a, ERC10b, ERC11a, ERC11b		
Production of polymers Production of plastics	SU11, SU12	PC32	PROC3, PROC5, PROC8a, PROC8b		ERC1, ERC6b		
Drilling method and production method in oil fields	SU2a, SU2b	PC20, PC40	PROC3, PROC4, PROC5, PROC8a, PROC8b		ERC8d		
Textile	SU5	PC20, PC23, PC34	PROC8a, PROC8b, PROC10, PROC13, PROC22	AC5, AC6	ERC4		
Use in coating, Colors	SU17, SU18, SU19	PC9a, PC9b, PC9c, PC18, PC34	PROC7, PROC8a, PROC8b, PROC10, PROC11, PROC19, PROC21, PROC24	AC4, AC11	ERC5, ERC8c, ERC8f, ERC10a, ERC10b, ERC11a, ERC11b		
Use in coating, Colors	SU17, SU18, SU19	PC9a, PC9b, PC18, PC34	PROC7, PROC8a, PROC8b, PROC10, PROC11, PROC19, PROC21, PROC24	AC4, AC11	ERC5, ERC8c, ERC8f, ERC10a, ERC10b, ERC11a, ERC11b		
Use in coating, Colors	SU17, SU18, SU19, SU21	PC9a, PC18, PC34		AC4, AC11	ERC8c, ERC8f, ERC10a, ERC10b, ERC11a, ERC11b		
Photography activities	SU20	PC30	PROC5, PROC9, PROC13		ERC8a		
Photography activities	SU20	PC30			ERC8a		
Use as a laboratory reagent	SU3	PC4, PC16, PC20, PC37 PROC	1, PROC2, PROC4, PROC8a		ERC4, ERC7, ERC8f		

Addendum: Identified	d Use					
Name	Categories use	Product category Process	category	Category subjects	Release to the environment	SPERC
Preparations for water treatment	SU14, SU15, SU16, SU17	PC4, PC7, PC14, PC16, PC17, PC20, PC25, PC31, PC35, PC37	PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18, PROC20, PROC23		ERC4, ERC6b, ERC7	
Preparations for surface treatment of metals	SU14, SU15, SU16, SU17	PC7, PC14, PC25, PC31, PC35	PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18, PROC23		ERC4, ERC6b	
Agriculture	SU1	PC8, PC12, PC21	PROC3, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC14, PROC15, PROC19		ERC2, ERC4, ERC8b, ERC8d	
Agriculture	SU1	PC8, PC12, PC21	PROC3, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC14, PROC15, PROC19		ERC2, ERC4, ERC8b, ERC8d	
Agriculture	SU1	PC8, PC12, PC21			ERC8b, ERC8d	
Medical devices SU20		PC20	PROC1		ERC7	
Medical devices SU22		PC20	PROC1		ERC7	
Medical devices SU21		PC20			ERC7	

1. Exposure scenario 01

Fabrication EC Ref. no: 01	
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EC type: Work	er					
Usage descriptors PROC1, SU8 ERC1		I, PROC2, PROC3, PROC4, PROC8b PC19				
Processes covered by activities a	ssociated with tasks Use as an i	ntermediate product				
Evaluation method	see sec	tion 3 in this exposure scenario				
2. Operating conditions and	risk management measi	Ires				
2.1.1 Sub-scenario controll	ing worker exposure (PROC1)					
PROC1	Chemical production or refinin	g in a closed process with no likelihood of exposure or in process	es with equivalent			
	control conditions					
Product features		-				
Physical form		Crystalline solid, powder				
Concentration of the substance in the m	ixture/article	It refers to the percentage of the substance in the product up to	100% (unless stated otherwise)			
Other product features		Risk of dust explosion, irritant				
Operating conditions						
Frequency and duration of use		Emission days (days/	350			
		year): Exposure	1 case per day			
		time Exposure time	>4 h			
Human factors that are not affect	ed by risk management	Body weight: Breathing	70 kg Default			
		volume Includes	10 m³/d Default			
		skin contact area up to Measures for	Palm of one hand (240 cm ²)			
Other given operating conditions	that affect environmental	ventilation and venting It is based on	Not used.			
exposure		the implementation of an appropriate standard for occupational hygiene.				
Risk management measures						
Conditions and measures in relat	ion to personal	It is based on the implementation of a suitable standard for				
protection, hygiene and health ex	aminations	occupational hygiene.				
		Wear protective gloves/protective clothing and safety glasses/face shield.				
		Use appropriate respiratory protection, an effective dust mask				
		In case of insufficient ventilation, use suitable breathing				
		equipment, (Dust/Mist).				
		breathing apparatus				
		For further specifications see section 8 of the safety data sheet.				
2.1.2 Sub-scenario controll	ing worker exposure (PROC2.	PROC4)				
PROC2	Chemical production or refinin	g in a continuous closed process with occasionally controlled exp	osure or in processes with equivalent			
	control conditions					
PROC4	Chemical production with pote	ntial exposure.				
Product features						
Physical form		Crystalline solid, powder				
Concentration of the substance in the m	ixture/article	It refers to the percentage of the substance in the product up to	100% (unless stated otherwise)			
Other product features		Risk of dust explosion, irritant				
Operating conditions						
Frequency and duration of use		Emission days (days/year):	350			
		Exposure time	1 case per day			
		Exposure time	>4 h			
Human factors that are not affect	ed by risk management	bouy weight:	70 kg Default			
			10 m³/d Default			
Other given operating conditions	that affect onvironmental	With local suction	Paims of both hands (480 cm2)			
exposure	that anect environmental		minimum [%]: 90			
		It is based on the implementation of a suitable standard for				
		occupational hygiene.				

Risk management measures			
	tion to normanal	It is based on the implementation of a suitable standard for	
conditions and measures in relation	aminations		
protection, hygiche and health ex	aminations	Wear protective gloves/protective clothing and safety	
		glasses/face shield.	
		Use appropriate respiratory protection, an effective	
		dust mask	
		In case of insufficient ventilation, use suitable breathing	
		equipment, (Dust/Mist),	
		In high concentrations: Use self-contained	
		breatning apparatus	
		For further specifications see section o or the safety data sheet.	
2.1.3 Subscenario controlli	ng worker exposure (PROC3)		
PROC3	Manufacture or formulation in t	he chemical industry in closed batch processes with occasionally	controlled exposure or in
	processes with equivalent con	trol conditions	
Product features			
Physical form		Crystalline solid, powder	
Concentration of the substance in the m	ixture/article	It refers to the percentage of the substance in the product up to	100% (unless stated otherwise)
Other product features		Risk of dust explosion, irritant	
Operating conditions			
Frequency and duration of use		Emission days (days/year):	350
. requerty and duration of use			1 case per day
			s4 h
		Exposure time	
Human factors that are not affect	ed by risk management	Body weight:	70 kg Default
		Tidal volume	10 m³/d Default
		Includes skin contact area up to	Palm of one hand (240 cm ²)
Other given operating conditions	that affect environmental	With local suction	Local ventilation efficiency
exposure			minimum [%]: 90
		It is based on the implementation of a suitable standard for	
		occupational hygiene.	
Risk management measures			
Conditions and measures in relat	ion to personal	It is based on the implementation of a suitable standard for	
protection, hygiene and health ex	aminations	occupational hygiene.	
		Wear protective gloves/protective clothing and safety	
		glasses/face shield.	
		Use appropriate respiratory protection, an effective	
		In case of insufficient ventilation, use suitable breathing	
		equipment (Dust/Mist)	
		In high concentrations: Use self-contained	
		breathing apparatus.	
		For further specifications see section 8 of the safety data sheet.	
2.1.4 Sub-scenario controll	ling worker exposure (PROC8)		
PROC8b	Transport of the substance or	mixture (filling/discharging) in appendiation	
Product features			
Physical form			
Physical form		Crystalline solid, powder	
Physical form Concentration of the substance in the m	ixture/article	Crystalline solid, powder It refers to the percentage of the substance in the product up to	100% (unless stated otherwise)
Physical form Concentration of the substance in the m	ixture/article	Crystalline solid, powder It refers to the percentage of the substance in the product up to	100% (unless stated otherwise)
Physical form Concentration of the substance in the m Other product features	iixture/article	Crystalline solid, powder It refers to the percentage of the substance in the product up to Risk of dust explosion, irritant	100% (unless stated otherwise)
Physical form Concentration of the substance in the m Other product features Operating conditions	iixture/article	Crystalline solid, powder It refers to the percentage of the substance in the product up to Risk of dust explosion, irritant	100% (unless stated otherwise)
Physical form Concentration of the substance in the m Other product features Operating conditions Frequency and duration of use	iixture/article	Crystalline solid, powder It refers to the percentage of the substance in the product up to Risk of dust explosion, irritant Emission days (days/year):	100% (unless stated otherwise)
Physical form Concentration of the substance in the m Other product features Operating conditions Frequency and duration of use	iixture/article	Crystalline solid, powder It refers to the percentage of the substance in the product up to Risk of dust explosion, irritant Emission days (days/year):	100% (unless stated otherwise) 350
Physical form Concentration of the substance in the m Other product features Operating conditions Frequency and duration of use	iixture/article	Crystalline solid, powder It refers to the percentage of the substance in the product up to Risk of dust explosion, irritant Emission days (days/year): Exposure time	100% (unless stated otherwise) 350 1 case per day
Physical form Concentration of the substance in the m Other product features Operating conditions Frequency and duration of use	iixture/article	Crystalline solid, powder It refers to the percentage of the substance in the product up to Risk of dust explosion, irritant Emission days (days/year): Exposure time Exposure time Body weight:	100% (unless stated otherwise) 350 1 case per day >4 h 70 hp Defection
Physical form Concentration of the substance in the m Other product features Operating conditions Frequency and duration of use Human factors that are not affect	ixture/article	Crystalline solid, powder It refers to the percentage of the substance in the product up to Risk of dust explosion, irritant Emission days (days/year): Exposure time Exposure time Body weight:	100% (unless stated otherwise) 350 1 case per day >4 h 70 kg Default
Physical form Concentration of the substance in the m Other product features Operating conditions Frequency and duration of use Human factors that are not affect	ixture/article	Crystalline solid, powder It refers to the percentage of the substance in the product up to Risk of dust explosion, irritant Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume	100% (unless stated otherwise) 350 1 case per day >4 h 70 kg Default 10 m³/d Default
Physical form Concentration of the substance in the m Other product features Operating conditions Frequency and duration of use Human factors that are not affect	ixture/article	Crystalline solid, powder It refers to the percentage of the substance in the product up to Risk of dust explosion, irritant Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Includes skin contact area up to	100% (unless stated otherwise) 350 1 case per day >4 h 70 kg Default 10 m³/d Default Palms of both hands (480 cm2)
Physical form Concentration of the substance in the m Other product features Operating conditions Frequency and duration of use Human factors that are not affect Other given operating conditions	ed by risk management that affect environmental	Crystalline solid, powder It refers to the percentage of the substance in the product up to Risk of dust explosion, irritant Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Includes skin contact area up to With local suction	350 1 case per day >4 h 70 kg Default 10 m³/d Default Palms of both hands (480 cm2) Local ventilation efficiency
Physical form Concentration of the substance in the m Other product features Operating conditions Frequency and duration of use Human factors that are not affect Other given operating conditions exposure	ed by risk management that affect environmental	Crystalline solid, powder It refers to the percentage of the substance in the product up to Risk of dust explosion, irritant Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Includes skin contact area up to With local suction	100% (unless stated otherwise) 350 1 case per day >4 h 70 kg Default 10 m³/d Default Palms of both hands (480 cm2) Local ventilation efficiency minimum [%]: 95

occupational hygiene.

Risk management measures		
Conditions and measures in relation to personal protection, hygiene and health examinations	It is based on the implementation of a suitable standard for occupational hygiene.	
	Wear protective gloves/protective clothing and safety glasses/face shield.	
	Use appropriate respiratory protection, an effective dust mask	
	In case of insufficient ventilation, use suitable breathing equipment, (Dust/Mist)	
	In high concentrations: Use self-contained breathing apparatus.	
	For further specifications see section 8 of the safety data sheet.	
2.2 Sub-scenario controlling environmental exposure (E	RC1)	

Fabric production

ERC1 Product features

There is no additional information

Operating conditions

Quantity used	Quantity used	100000 t/year
	Regional amount of use (tons/year):	10000 t/year
	Annual site tonnage (tons/year):	10000 t/year
	Locally used part of regional tonnage:	30 tons/day
Environmental factors unaffected by risk management	Local drinking water dilution factor:	900
	Local seawater dilution factor:	1000
Other operating conditions related to environmental	Proportion of release to air from the process (initial release	0
exposure	before RMM):	
	Proportion of release to process wastewater (initial release	0.0001
	before RMM):	
Risk management measures		
Technical conditions and on-site measures aimed at reducing or	Wastewater pretreatment	Before discharge to the treatment plant
limiting waste and emissions affecting the air and soil		wastewater must be neutralized
	Treatment of waste water	Central biological

	Treatment of waste water	Central biological
		treatment of wastewater
	Alleged ratio of domestic waste water (m3/d):	10000 m³/d
Conditions and measures related to the sewage treatment plant	None/no one	
Conditions and measures for external treatment of	The proportion of the quantity used that will be	No specific dates
sewage waste	supplied by external waste management	
Conditions and measures related to the external use of waste	Solid waste	May be landfilled or
		incinerated in accordance with
		local regulations.
	Retain sludge.	fertilizers

3. Exposure estimate and reference to its source

3.1. Health

Informat	tion for supporting expo	osure scenario
2.1.1		ECETOC TRA model used (May 2010 version)
2.1.2		ECETOC TRA model used (May 2010 version)
2.1.3		ECETOC TRA model used (May 2010 version)
2.1.4		ECETOC TRA model used (May 2010 version)
3.2.	Environment	

Information for supporting expos	re scenario
2.2	EUSES
4. Instructions for the downstrea	user to assess whether he is working within the limits set by the exposure scenario
4.1. Health	
Instructions - health	No data available
4.2. Environment	
Instructions - environment	The expected exposure will not exceed the PNEC-value if the risk management measures/operating conditions in
	paragraph 2 are followed.

1. Exposure scenario 02

Use as intermediate EC Ref. no: 02

E	C type: Worker					
Usage descriptors PROC SU8, S ERC6a		PROC1 SU8, SI ERC6a	, PROC2, PROC3, PROC4, PROC8b PC19 J9			
Processes covered by activities associated with tasks Use as Pro- Pro- Pro- Pro- Use Use Covered by Activities associated with tasks Use as Pro- Pro- Use Covered by Activities associated with tasks Use as Pro- Pro- Pro- Pro- Pro- Pro- Pro- Pro-		e as an ir Product Product Use in i	is an intermediate product roduction of heavy, bulk chemicals (including petroleum products) roduction of light chemicals les in industrial facilities (IS)			
Evaluation method see		see sec	section 3 in this exposure scenario			
2. Operating conditions and	l risk management	measu	ires			
2.1.1 Sub-scenario controll	ing worker exposure (PROC1)				
PROC1	Chemical production o	r refining	in a closed process with no likelihood of exposure or in processe	s with equivalent control		
Product features						
Physical form			Crystalline solid nowder			
Concentration of the substance in the mix	kture/article		It refers to the percentage of the substance in the product up to	100% (unless stated otherwise)		
Other product features			Risk of dust explosion, irritant			
Operating conditions			· ·			
Frequency and duration of use			Emission days (days)	300		
Frequency and duration of use			vear): Exposure	1 case per day		
				>4 h		
Human factors that are not affected	d by risk management		Includes skin contact area up to Measures	Palm of one hand (240 cm ²)		
Other given operating conditions t	hat affect environmental	1	for ventilation and venting It is based	Not used		
exposure			on the implementation of an appropriate standard for			
•			occupational hygiene.			
Risk management measures			-	-		
Conditions and measures in relations	on to personal protection	٦,	It is based on the implementation of a suitable standard for occupational burgene			
			Wear protective gloves/protective clothing and safety			
			Use appropriate respiratory protection, an effective dust mask			
			In case of insufficient ventilation, use suitable breathing			
			equipment, (Dust/Mist)			
			breathing apparatus			
			For further specifications see section 8 of the safety data sheet.			
2.1.2 Subscenario controlli	ng worker exposure (F	PROC2)				
PROC2	Chemical production o	r refining	in a continuous closed process with occasionally controlled expo	sure or in processes with equivalent		
Droduct factures	control conditions					
Product reatures						
Physical form	to a to data		Crystalline solid, powder			
Concentration of the substance in the mix	kture/article		It refers to the percentage of the substance in the product up to	100% (unless stated otherwise)		
Other product features			Risk of dust explosion, irritant			
Operating conditions						
Frequency and duration of uso			Emission days (days/year):	300		
			Exposure time	1 case per day		
			Exposure time	>4 h		
Human factors that are not affecte	ed by risk management		Includes skin contact area up to	Palms of both hands (480 cm2)		
Other given operating conditions t exposure	hat affect environmental	l	With local suction	Local ventilation efficiency minimum [%]: 90		
		It is based on the implementation of a suitable standard for occupational hygiene.				
Risk management measures			· · · · · · · · · · · · · · · · · · ·			
Conditions and measures in relat	ion to personal		It is based on the implementation of a suitable standard for			
protection, hvaiene and health ex	aminations		occupational hygiene.			
·····			Wear protective gloves/protective clothing and safety dlasses/face shield.			
			Use appropriate respiratory protection, an effective dust mask			
			Use in case of insufficient ventilation			
			suitable breathing apparatus, (Dust/Mist)			
			In high concentrations: Use independent			
			breathing apparatus			
			For further specifications see section 8 of the safety data sheet.			

2.1.3 Subscenario controll	ing worker exposure (PROC3))		
PROC3	Manufacture or formulation in the chemical industry in closed batch processes with occasionally controlled exposure or in			
	processes with equivalent cor	ntrol conditions		
Product features				
Physical form		Crystalline solid, powder		
Concentration of the substance in the m	ixture/article	It refers to the percentage of the substance in the product up to	100% (unless stated otherwise)	
Other product features		Risk of dust explosion, irritant		
Operating conditions				
Frequency and duration of use		Emission days (days/year):	300	
		Exposure time	1 case per day	
		Exposure time	>4 h	
Human factors that are not affect	ed by risk management	Includes skin contact area up to With local suction	Palm of one hand (240 cm ²)	
exposure	that allect environmental		minimum [%]: 90	
onpoouro		It is based on the implementation of a suitable standard for		
		occupational hygiene.		
Risk management measures				
Conditions and measures in relat hygiene and health examinations	ion to personal protection,	It is based on the implementation of a suitable standard for occupational hygiene.		
		Wear protective gloves/protective clothing and safety		
		glasses/face shield.		
		Use appropriate respiratory protection, an effective dust mask		
		In case of insufficient ventilation, use suitable breathing		
		equipment, (Dust/Mist)		
		In high concentrations: Use self-contained breathing apparatus.		
		For further specifications see section 8 of the safety data sheet.		
2.1.4 Subscenario controll	ing worker exposure (PROC4			
PROC4	Chemical production with pote	ential exposure.		
Product features				
Physical form		Crystalline solid, powder		
Concentration of the substance in the m	ixture/article	It refers to the percentage of the substance in the product up to	100% (unless stated otherwise)	
Other product features		Risk of dust explosion, irritant		
Operating conditions				
Frequency and duration of use		Emission days (days/year):	300	
		Exposure time	1 case per day	
		Exposure time	>4 n	
Other given operating conditions	that affect environmental	With local suction	Local ventilation efficiency	
exposure			minimum [%]: 90	
		It is based on the implementation of a suitable standard for		
Biek management massures				
Conditions and massures in rolat	ion to personal protection	It is based on the implementation of a quitable standard for		
hygiene and health examinations		occupational hygiene.		
		Wear protective gloves/protective clothing and safety glasses/face shield.		
		Use appropriate respiratory protection, an effective dust mask		
		In case of insufficient ventilation, use suitable breathing		
		equipment, (Dust/Mist)		
		in high concentrations: Use self-contained breathing apparatus.		
		For further specifications see section 8 of the safety data sheet.		
2.1.5 Sub-scenario control	ling worker exposure (PROC8	3b)		
PROC8b	Transport of the substance or	mixture (filling/discharging) in specialized facilities		
Product features				
Physical form		Crystalline solid, powder		
Concentration of the substance in the m	ixture/article	It refers to the percentage of the substance in the product up to	100% (unless stated otherwise)	
Other product features		Risk of dust explosion irritent		
		The set of addit opposion, initiant		

Operating conditions				
Frequency and duration of use		Emission days (days/year):	300	
			Exposure time	1 case per day
			Exposure time	>4 h
Human factors that are not affect	ted by risk managem	nent	Includes skin contact area up to	Palms of both hands (480 cm2)
Other given operating conditions	s that affect environm	ental		
exposure			It is based on the implementation of a suitable standard for	
			occupational hygiene.	
Risk management measures				
Conditions and measures in rel	ation to personal		It is based on the implementation of a suitable standard for	
protection, hygiene and health	examinations		occupational hygiene.	
			Wear protective gloves/protective clothing and safety	
			glasses/face shield.	
			Use appropriate respiratory protection, an effective	
			dust mask	
			equipment. (Dust/Mist)	
			In high concentrations: Use self-contained	
			breathing apparatus.	
			For further specifications see section 8 of the safety data sheet.	
2.2 Sub-scenario contro	olling environmenta	l exposure (E	RC6a)	
intermediate product				
ERC6a	Using an interme	ediate		
Product features				
There is no additional informatic	'n			
	"1			
			Quantity used	100000 t/uppr
				100000 /year
Other operating conditions related to environmental		Not applicable		
Risk management measures				
Tachnical conditions and on sit		roducing or	Westswater protreatment	Noutrolization must be corriad out
limiting waste and emissions af	fecting the air and so	il	wastewater pretreatment	before discharge to the sewage
······································	· · · · · · · · · · · · · · · · · · ·			treatment plant
			Treatment of waste water	Central biological
				treatment of wastewater
Conditions and measures related	to the sewage treatme	nt plant	None/no one	
Conditions and measures for ex	sternal treatment of		The proportion of the quantity used that will be	No specific dates
sewage waste			supplied by external waste management	
Conditions and measures relate	ed to the external use	e of waste	Solid waste	May be landfilled or
				incinerated in accordance with
			Detain cludes	local regulations.
I				
3. Exposure estimate and refere	ence to its source			
S.I. Health				
Information for supporting expo	sure scenario			
2.1.1	ECETOC TRA mod	del used (May	2010 version)	
2.1.2 ECETOC TRA model used (May		2010 version)		
2.1.3	ECETOC TRA mod	del used (May	2010 version)	
2.1.4 ECETOC TRA model used (May 2		2010 version)		
2.1.5 ECETOC TRA model used (May 2		2010 version)		
3.2. Environment				
Information for supporting expo	sure scenario			
2.2	EUSES			
4 Instructions for the downstre	am user to assess	wheth <u>er he is</u>	working within the limits set by the exposure scenario	
4.1. Health		internet file 15	Torking within the mints set by the exposure scenario	
	Nr1			
	INO d	ala avaliable		
4.2. Environment				
Instructions - environment	The	expected expo	sure will not exceed the PNEC-value if the risk management mea	sures/operating conditions in
	para	graph 2 are fo	llowed.	

1. Exposure scenario 03

Formulation of preparations ES Ref. no: 03 EC type: Worker

EO	type: worker				
Usage descriptors PROC PROC PC1, P SU5, S EPC1		1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8 14, PROC15, PROC19 PC3, PC9a, PC9b, PC9c, PC12, PC18, PC30, PC31, PC35, PC39 SU10, SU13, SU20	b, PROC9, PROC13,		
		ERC1,	ERC2, ERC3, ERC4		
Processes covered by task activities Adhesives, sealants, air fres Fillers Fertiliz Photo		, air fresh Fillers Fertiliz Photod	sheners, coatings and paints s and sealants thinners zers pochemical ink and toners		
		Washi	ng and cleaning products (including solvent-based products), cosr	netics, personal care products	
		Produc	tion of textiles leather furs		
		Formu	lation [mixing] of preparations and/or their repackaging (except all	oys)	
		Produc	ction of other non-metallic mineral products, e.g. cement mixtures,	cement Health services	
		Use in	industrial facilities (IS)		
Evaluation method		see se	ction 3 in this exposure scenario		
2. Operating conditions and	risk management	measu	res		
2.1.1 Sub-scenario controll	ing worker exposure (F	PROC1)			
Washing and cleaning products (including solvent-based	products). Car care products (spray, liquid).		
PROC1 Chemical production or refin	ning in a closed process w	ith no like	lihood of exposure or in processes with equivalent control conditions		
-					
Product features					
Physical form			Crystalline solid, powder		
Other product features			Risk of dust explosion, irritant, volatility, high		
Operating conditions					
Frequency and duration of use			Emission days (days/year):	300	
			Exposure time	1 case per day	
			Exposure time	>4 11	
Human factors that are not affect	ed by risk management			70 kg	
			lidal volume	Dolm of and hand (240 cm ²)	
Other given energting conditions	that affact any ironmanta	1	Local exhaust ventilation	Paim of one hand (240 cm²)	
exposure	that allect environmenta	1	It is based on the implementation of a suitable standard for	Not used.	
			occupational hygiene.		
Risk management measures					
Conditions and measures in relat	ion to personal		It is based on the implementation of a suitable standard for		
protection, hygiene and health ex	aminations		occupational hygiene.		
			Wear protective gloves/protective clothing and safety		
			For further specifications see section 8 of the safety data sheet.		
2.1.2 Sub-scenario controll	ing worker exposure (F	PROC2,	PROC4, PROC5, PROC8b, PROC9, PROC14)		
Washing and cleaning products (i	including solvent-based	products). Car care products (spray, liquid).		
PROC2 Chemical production or refine	ning in a continuous closed	d process	with occasionally controlled exposure or in processes with equivalent of	control conditions	
PROC4	Chemical production v	vith note	ntial exposure		
PROC5	Mixing or mixing in bat	tch produ	uction processes		
PROC8b	Transport of the subst	ance or	mixture (filling/discharging) in specialized facilities		
PROC9	Transport of substanc	e or prep	eparation in small containers (specialized filling line, including weighing)		
PROC14	Tableting, compressio	n, extrus	ion, pelletization, granulation		
Product features					
Physical form			Crystalline solid, powder		
Other product features		Risk of dust explosion, irritant, volatility, high			
Operating conditions					
Erequency and duration of use			Emission days (days/year)	300	
			Exposure time	1 case per day	
			Exposure time	>4 h	
Human factors that are not affect	ed by risk management		Body weight:	70 kg	
	-		Tidal volume	10 m³/day	
			Includes skin contact area up to	Palms of both hands (480 cm2)	
Other given operating conditions	that affect environmenta	I	With local suction	Local ventilation efficiency	
exposure			It is based on the implementation of a suitable standard for	minimum [%]: 90	
			occupational hygiene.		

There in an agoin of the notable of the			
Conditions and measures in rela	tion to personal	It is based on the implementation of a suitable standard for	
protection, hygiene and health ex	kaminations	occupational hygiene.	
		Wear protective gloves/protective clothing and safety glasses/face shield.	
		For further specifications see section 8 of the safety data sheet.	
2.1.3 Sub-scenario control	ling worker exposure (PROC3.	PROC15)	
Washing and cleaning products	(including solvent-based products) Car care products (spray, liquid)	
processes	Manufacture or formulation in the	chemical industry in closed batch processes with occasional PROC3 (controlled exposure or in
with equivalent control c	onditions		
PROC15	Use as a laboratory reagent		
Product features			
Physical form		Crystalline solid, powder	
Other product features		Risk of dust explosion, irritant, volatility, high	
		······································	
Operating conditions			200
Frequency and duration of use		Emission days (days/year):	300
			1 case per day
		Exposure time	>4 11
Human factors that are not affec	ted by risk management	Body weight:	70 kg
		Tidal volume	10 m³/day
		Includes skin contact area up to	Palm of one hand (240 cm ²)
Other given operating conditions exposure	that affect environmental	With local suction	Local ventilation efficiency minimum [%]: 90
		It is based on the implementation of a suitable standard for	
Biok management massures			
Conditions and measures in rela	tion to normanal	It is based on the implementation of a quitable standard for	
protection bygiene and health e	aminations	occupational hydiene	
		Wear protective gloves/protective clothing and safety	
		glasses/face shield.	
		For further specifications see section 8 of the safety data sheet.	
2.1.4 Subscenario controll	ing worker exposure (PROC7)		
	• • • •		
Washing and cleaning products	(including solvent-based products). Car care products (spray, liquid).	
Washing and cleaning products PROC7	(including solvent-based products Spraying techniques in industr). Car care products (spray, liquid). ial facilities.	
Washing and cleaning products PROC7 Product features	(including solvent-based products Spraying techniques in industr). Car care products (spray, liquid). ial facilities.	
Washing and cleaning products PROC7 Product features Physical form	(including solvent-based products Spraying techniques in industr). Car care products (spray, liquid). ial facilities. Crystalline solid, powder	
Washing and cleaning products of PROC7 Product features Physical form Other product features	(including solvent-based products Spraying techniques in industr). Car care products (spray, liquid). ial facilities. Crystalline solid, powder Risk of dust explosion, irritant, volatility, high	
Washing and cleaning products of PROC7 Product features Physical form Other product features Operating conditions	(including solvent-based products Spraying techniques in industr). Car care products (spray, liquid). ial facilities. Crystalline solid, powder Risk of dust explosion, irritant, volatility, high	
Washing and cleaning products PROC7 Product features Physical form Other product features Operating conditions	(including solvent-based products Spraying techniques in industr	 c). Car care products (spray, liquid). ial facilities. Crystalline solid, powder Risk of dust explosion, irritant, volatility, high 	300
Washing and cleaning products PROC7 Product features Physical form Other product features Operating conditions Frequency and duration of use	including solvent-based products	i). Car care products (spray, liquid). ial facilities. Crystalline solid, powder Risk of dust explosion, irritant, volatility, high Emission days (days/year):	300 4 coop por day
Washing and cleaning products PROC7 Product features Physical form Other product features Operating conditions Frequency and duration of use	including solvent-based products Spraying techniques in industr	 c). Car care products (spray, liquid). ial facilities. Crystalline solid, powder Risk of dust explosion, irritant, volatility, high Emission days (days/year): Exposure time 	300 1 case per day
Washing and cleaning products of PROC7 Product features Physical form Other product features Operating conditions Frequency and duration of use	including solvent-based products Spraying techniques in industr	 car care products (spray, liquid). ial facilities. Crystalline solid, powder Risk of dust explosion, irritant, volatility, high Emission days (days/year): Exposure time Exposure time Body weight: 	300 1 case per day >4 h
Washing and cleaning products of PROC7 Product features Physical form Other product features Operating conditions Frequency and duration of use Human factors that are not affect	ted by risk management). Car care products (spray, liquid). ial facilities. Crystalline solid, powder Risk of dust explosion, irritant, volatility, high Emission days (days/year): Exposure time Body weight: 	300 1 case per day >4 h 70 kg
Washing and cleaning products of PROC7 Product features Physical form Other product features Operating conditions Frequency and duration of use Human factors that are not affect	ted by risk management). Car care products (spray, liquid). ial facilities. Crystalline solid, powder Risk of dust explosion, irritant, volatility, high Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume 	300 1 case per day >4 h 70 kg 10 m³/day
Washing and cleaning products of PROC7 Product features Physical form Other product features Operating conditions Frequency and duration of use Human factors that are not affect	ted by risk management	 b). Car care products (spray, liquid). ial facilities. Crystalline solid, powder Risk of dust explosion, irritant, volatility, high Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Includes skin contact area up to 	300 1 case per day >4 h 70 kg 10 m³/day hands and forearms (1500 cm²)
Washing and cleaning products of PROC7 Product features Physical form Other product features Operating conditions Frequency and duration of use Human factors that are not affect Other given operating conditions	ted by risk management that affect environmental	 b). Car care products (spray, liquid). ial facilities. Crystalline solid, powder Risk of dust explosion, irritant, volatility, high Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Includes skin contact area up to With local suction 	300 1 case per day >4 h 70 kg 10 m³/day hands and forearms (1500 cm²) Local ventilation efficiency arbitrary f(12.00
Washing and cleaning products of PROC7 Product features Physical form Other product features Operating conditions Frequency and duration of use Human factors that are not affect Other given operating conditions exposure	ted by risk management	 b). Car care products (spray, liquid). ial facilities. Crystalline solid, powder Risk of dust explosion, irritant, volatility, high Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Includes skin contact area up to With local suction 	300 1 case per day >4 h 70 kg 10 m³/day hands and forearms (1500 cm²) Local ventilation efficiency minimum [%]: 90
Washing and cleaning products of PROC7 Product features Physical form Other product features Operating conditions Frequency and duration of use Human factors that are not affect Other given operating conditions exposure	ted by risk management that affect environmental	 b). Car care products (spray, liquid). ial facilities. Crystalline solid, powder Risk of dust explosion, irritant, volatility, high Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Includes skin contact area up to With local suction It is based on the implementation of a suitable standard for occupational hygiene. 	300 1 case per day >4 h 70 kg 10 m ³ /day hands and forearms (1500 cm ²) Local ventilation efficiency minimum [%]: 90
Washing and cleaning products of PROC7 Product features Physical form Other product features Operating conditions Frequency and duration of use Human factors that are not affect Other given operating conditions exposure	ted by risk management that affect environmental	 c). Car care products (spray, liquid). ial facilities. Crystalline solid, powder Risk of dust explosion, irritant, volatility, high Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Includes skin contact area up to With local suction It is based on the implementation of a suitable standard for occupational hygiene. 	300 1 case per day >4 h 70 kg 10 m³/day hands and forearms (1500 cm²) Local ventilation efficiency minimum [%]: 90
Washing and cleaning products of PROC7 Product features Physical form Other product features Operating conditions Frequency and duration of use Human factors that are not affect Other given operating conditions exposure Risk management measures Conditions and measures	ted by risk management that affect environmental	 c). Car care products (spray, liquid). ial facilities. Crystalline solid, powder Risk of dust explosion, irritant, volatility, high Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Includes skin contact area up to With local suction It is based on the implementation of a suitable standard for occupational hygiene. 	300 1 case per day >4 h 70 kg 10 m³/day hands and forearms (1500 cm²) Local ventilation efficiency minimum [%]: 90
Washing and cleaning products of PROC7 Product features Physical form Other product features Operating conditions Frequency and duration of use Human factors that are not affect Other given operating conditions exposure Risk management measures Conditions and measures in relaprotection, hygiene and health exit	ted by risk management that affect environmental tion to personal caminations	 c). Car care products (spray, liquid). ial facilities. Crystalline solid, powder Risk of dust explosion, irritant, volatility, high Emission days (days/year): Exposure time Body weight: Tidal volume Includes skin contact area up to With local suction It is based on the implementation of a suitable standard for occupational hygiene. 	300 1 case per day >4 h 70 kg 10 m³/day hands and forearms (1500 cm²) Local ventilation efficiency minimum [%]: 90
Washing and cleaning products of PROC7 Product features Physical form Other product features Operating conditions Frequency and duration of use Human factors that are not affect Other given operating conditions exposure Risk management measures Conditions and measures in rela protection, hygiene and health exposure	ted by risk management that affect environmental	 c). Car care products (spray, liquid). ial facilities. Crystalline solid, powder Risk of dust explosion, irritant, volatility, high Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Includes skin contact area up to With local suction It is based on the implementation of a suitable standard for occupational hygiene. It is based on the implementation of a suitable standard for occupational hygiene. 	300 1 case per day >4 h 70 kg 10 m³/day hands and forearms (1500 cm²) Local ventilation efficiency minimum [%]: 90
Washing and cleaning products of PROC7 Product features Physical form Other product features Operating conditions Frequency and duration of use Human factors that are not affect Other given operating conditions exposure Risk management measures Conditions and measures in rela protection, hygiene and health exposure	ted by risk management that affect environmental tion to personal kaminations	 c). Car care products (spray, liquid). ial facilities. Crystalline solid, powder Risk of dust explosion, irritant, volatility, high Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Includes skin contact area up to With local suction It is based on the implementation of a suitable standard for occupational hygiene. It is based on the implementation of a suitable standard for occupational hygiene. Wear protective gloves/protective clothing and safety glasses/face shield. 	300 1 case per day >4 h 70 kg 10 m³/day hands and forearms (1500 cm²) Local ventilation efficiency minimum [%]: 90
Washing and cleaning products of PROC7 Product features Physical form Other product features Operating conditions Frequency and duration of use Human factors that are not affect Other given operating conditions exposure Risk management measures Conditions and measures in relaprotection, hygiene and health exposure	ted by risk management that affect environmental tion to personal kaminations	 c). Car care products (spray, liquid). ial facilities. Crystalline solid, powder Risk of dust explosion, irritant, volatility, high Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Includes skin contact area up to With local suction It is based on the implementation of a suitable standard for occupational hygiene. It is based on the implementation of a suitable standard for occupational hygiene. Wear protective gloves/protective clothing and safety glasses/face shield. For further specifications see section 8 of the safety data sheet. 	300 1 case per day >4 h 70 kg 10 m³/day hands and forearms (1500 cm²) Local ventilation efficiency minimum [%]: 90
Washing and cleaning products of PROC7 Product features Physical form Other product features Operating conditions Frequency and duration of use Human factors that are not affect Other given operating conditions exposure Risk management measures Conditions and measures in rela protection, hygiene and health exposure 2.1.5	ted by risk management that affect environmental tion to personal kaminations ting worker exposure (PROC8a	 c). Car care products (spray, liquid). ial facilities. Crystalline solid, powder Risk of dust explosion, irritant, volatility, high Emission days (days/year): Exposure time Body weight: Tidal volume Includes skin contact area up to With local suction It is based on the implementation of a suitable standard for occupational hygiene. It is based on the implementation of a suitable standard for occupational hygiene. It is based on the implementation of a suitable standard for occupational hygiene. Wear protective gloves/protective clothing and safety glasses/face shield. For further specifications see section 8 of the safety data sheet. 	300 1 case per day >4 h 70 kg 10 m³/day hands and forearms (1500 cm²) Local ventilation efficiency minimum [%]: 90
Washing and cleaning products of PROC7 Product features Physical form Other product features Operating conditions Frequency and duration of use Human factors that are not affect Other given operating conditions exposure Risk management measures Conditions and measures in rela protection, hygiene and health exposure 2.1.5 Sub-scenario control Washing and cleaning products	tion to personal caminations	 c). Car care products (spray, liquid). ial facilities. Crystalline solid, powder Risk of dust explosion, irritant, volatility, high Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Includes skin contact area up to With local suction It is based on the implementation of a suitable standard for occupational hygiene. It is based on the implementation of a suitable standard for occupational hygiene. It is based on the implementation of a suitable standard for occupational hygiene. It is based on the implementation of a suitable standard for occupational hygiene. It is based on the implementation of a suitable standard for occupational hygiene. So are protective gloves/protective clothing and safety glasses/face shield. For further specifications see section 8 of the safety data sheet. Car care products (spray, liquid). 	300 1 case per day >4 h 70 kg 10 m³/day hands and forearms (1500 cm²) Local ventilation efficiency minimum [%]: 90
Washing and cleaning products of PROC7 Product features Physical form Other product features Operating conditions Frequency and duration of use Human factors that are not affect Other given operating conditions exposure Risk management measures Conditions and measures in relaprotection, hygiene and health exposure 21.5 Sub-scenario control Washing and cleaning products PROC8a	ted by risk management that affect environmental tion to personal kaminations ting worker exposure (PROC8a (including solvent-based products Transport of the substance or	 c). Car care products (spray, liquid). ial facilities. Crystalline solid, powder Risk of dust explosion, irritant, volatility, high Emission days (days/year): Exposure time Body weight: Tidal volume Includes skin contact area up to With local suction It is based on the implementation of a suitable standard for occupational hygiene. It is based on the implementation of a suitable standard for occupational hygiene. It is based on the implementation of a suitable standard for occupational hygiene. It is based on the implementation of a suitable standard for occupational hygiene. It car protective gloves/protective clothing and safety glasses/face shield. For further specifications see section 8 of the safety data sheet.) Car care products (spray, liquid). preparation (filling/discharging) in non-specialized facilities 	300 1 case per day >4 h 70 kg 10 m³/day hands and forearms (1500 cm²) Local ventilation efficiency minimum [%]: 90
Washing and cleaning products of PROC7 Product features Physical form Other product features Operating conditions Frequency and duration of use Human factors that are not affect Other given operating conditions exposure Risk management measures Conditions and measures in relat protection, hygiene and health exponent of the product set of the produ	ted by risk management that affect environmental tion to personal kaminations ling worker exposure (PROC8a (including solvent-based products Transport of the substance or	 b). Car care products (spray, liquid). ial facilities. Crystalline solid, powder Risk of dust explosion, irritant, volatility, high Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Includes skin contact area up to With local suction It is based on the implementation of a suitable standard for occupational hygiene. It is based on the implementation of a suitable standard for occupational hygiene. It is based on the implementation of a suitable standard for occupational hygiene. It is based on the implementation of a suitable standard for occupational hygiene. Vear protective gloves/protective clothing and safety glasses/face shield. For further specifications see section 8 of the safety data sheet. (a). Car care products (spray, liquid). 	300 1 case per day >4 h 70 kg 10 m³/day hands and forearms (1500 cm²) Local ventilation efficiency minimum [%]: 90
Washing and cleaning products of PROC7 Product features Physical form Other product features Operating conditions Frequency and duration of use Human factors that are not affect Other given operating conditions exposure Risk management measures Conditions and measures in rela protection, hygiene and health exposure 2.1.5 Sub-scenario control Washing and cleaning products of PROC8a Product features Physical form	ted by risk management that affect environmental tion to personal kaminations ting worker exposure (PROC8a (including solvent-based products Transport of the substance or	 c). Car care products (spray, liquid). ial facilities. Crystalline solid, powder Risk of dust explosion, irritant, volatility, high Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Includes skin contact area up to With local suction It is based on the implementation of a suitable standard for occupational hygiene. It is based on the implementation of a suitable standard for occupational hygiene. It is based on the implementation of a suitable standard for occupational hygiene. It is based on the implementation of a suitable standard for occupational hygiene. It is based on the implementation of a suitable standard for occupational hygiene. Car care products (spray, liquid). preparation (filling/discharging) in non-specialized facilities 	300 1 case per day >4 h 70 kg 10 m³/day hands and forearms (1500 cm²) Local ventilation efficiency minimum [%]: 90
Washing and cleaning products of PROC7 Product features Physical form Other product features Operating conditions Frequency and duration of use Human factors that are not affect Other given operating conditions exposure Risk management measures Conditions and measures in rela protection, hygiene and health exposure 2.1.5 Sub-scenario control Washing and cleaning products of PROC8a Product features Physical form Other product features	ted by risk management that affect environmental tion to personal caminations ting worker exposure (PROC8a (including solvent-based products Transport of the substance or	 c). Car care products (spray, liquid). ial facilities. Crystalline solid, powder Risk of dust explosion, irritant, volatility, high Emission days (days/year): Exposure time Body weight: Tidal volume Includes skin contact area up to With local suction It is based on the implementation of a suitable standard for occupational hygiene. It is based on the implementation of a suitable standard for occupational hygiene. Wear protective gloves/protective clothing and safety glasses/face shield. For further specifications see section 8 of the safety data sheet.) Car care products (spray, liquid). preparation (filling/discharging) in non-specialized facilities Crystalline solid, powder Risk of dust explosion. irritant. volatility. high 	300 1 case per day >4 h 70 kg 10 m³/day hands and forearms (1500 cm²) Local ventilation efficiency minimum [%]: 90

Operating conditions			
Frequency and duration of use		Emission days (days/year):	300
		Exposure time	1 case per day
		Exposure time	>4 h
Human factors that are not affect	ed by risk management	Body weight:	70 kg
		Tidal volume	10 m³/day
		Includes skin contact area up to	Both hands (960 cm²)
Other given operating conditions	that affect environmental	With local suction	Local ventilation efficiency
exposure			minimum [%]: 90
		It is based on the implementation of a suitable standard for	
Dist.			I
Risk management measures	ing to prove all	It is been done the inclusion of a suitable standard for	
protection bygiene and health ex	aminations	occupational hydrene	
		Wear protective gloves/protective clothing and safety	
		glasses/face shield.	
		For further specifications see section 8 of the safety data sheet.	
2.1.6 Sub-scenario controll	ing worker exposure (PROC1	3)	
Washing and cleaning products (including solvent-based product	s). Car care products (spray, liquid).	
PROC13	Treatment of objects by dippin	ng and pouring	
Product features			
Physical form		Crystalline solid, powder	
Other product features		Risk of dust explosion, irritant, Volatility, low	
Operating conditions			
Frequency and duration of use		Emission days (days/year):	300
		Exposure time	1 case per day
		Exposure time	>4 h
Human factors that are not affect	ed by risk management	Body weight:	70 kg
	, ,	Tidal volume	10 m³/day
		Includes skin contact area up to	Palms of both hands (480 cm2)
Other given operating conditions	that affect environmental	With local suction	Local ventilation efficiency
exposure			minimum [%]: 90
		It is based on the implementation of a suitable standard for	
D' I		occupational hygiene.	
Risk management measures	lion to normal	It is based on the implementation of a suitable standard for	
protection, hygiene and health ex	ion to personal kaminations	It is based on the implementation of a suitable standard for occupational hygiene.	
1		Wear protective gloves/protective clothing and safety	
		glasses/face shield.	
		For further specifications see section 8 of the safety data sheet.	
2.1.7 Sub-scenario controll	ing worker exposure (PROC1	9)	
Washing and cleaning products (including solvent-based product	s). Car care products (spray, liquid).	
PROC19	Manual activities involving ha	nd contact	
Product features			
Physical form		Crystalline solid, powder	
Other product features		Risk of dust explosion, irritant, Volatility, Iow	
Operating conditions			
Frequency and duration of use		Emission days (days/year):	300
		Exposure time	1 case per day
		Exposure time	>4 h
Human factors that are not affect	ed by risk management	Body weight:	70 kg
		Tidal volume	10 m³/day
		Includes skin contact area up to	hands and forearms (1980 cm ²)
Other given operating conditions	that affect environmental	With local suction	Local ventilation efficiency
exposure			minimum [%]: 90
		It is based on the implementation of a suitable standard for	
		It is based on the implementation of a suitable standard for occupational hygiene.	
Risk management measures		It is based on the implementation of a suitable standard for occupational hygiene.	
Risk management measures	ion to personal	It is based on the implementation of a suitable standard for occupational hygiene. It is based on the implementation of a suitable standard for	
Risk management measures Conditions and measures in relat protection, hygiene and health ex	ion to personal aminations	It is based on the implementation of a suitable standard for occupational hygiene. It is based on the implementation of a suitable standard for occupational hygiene.	
Risk management measures Conditions and measures in relat protection, hygiene and health ex	ion to personal aminations	It is based on the implementation of a suitable standard for occupational hygiene. It is based on the implementation of a suitable standard for occupational hygiene. Wear protective gloves/protective clothing and safety glasses face shield	

2.2 Sub-scenario controlling environmental exposure (ERC1, ERC2, ERC3, ERC4)

Adhesives, sealants. air fresheners. Coatings and paints, fillers, trowels, thinners. fertilizers. ink and toners. Photochemical substances. polishes and wax mixtures.				
Washing and cleaning products ((including solvent-based products). Cosmetics, personal care products.			
ERC1	Fabric production			
ERC2	Formulation into the mixture			
ERC3	Formulation into a solid base			
ERC4	Use of non-reactive auxiliaries in industrial equipment (without incorporation into the object or its surface)			

Product features

There is no additional information

oportating contaitione	C	pera	ting	cor	ıdi	tior	15
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Quantity used	Daily quantity per plant	20 tons/day
	Annual site tonnage (tons/year):	6000 t/year
Frequency and duration of use	Emission days (days/year):	300 days/year
Other operating conditions related to environmental	Proportion of release to air from the process (initial release	0.025
exposure	before RMM):	
	Proportion of release to process wastewater (initial	0.02
	release before RMM):	

Risk management measures

Technical conditions and on-site measures aimed at reducing or limiting waste and emissions affecting the air and soil	Wastewater pretreatment	Neutralization must be carried out before discharge to the sewage treatment plant
	Wastewater treatment	No specific dates
	Alleged ratio of domestic waste water (m3/d):	10000 m³/d
Conditions and measures related to the sewage treatment plant	External waste processing	It applies
Conditions and measures for external treatment of	The proportion of the quantity used that will be supplied	No specific dates
sewage waste	by external waste management	
Conditions and measures related to the external use of waste	Solid waste	May be landfilled or
		incinerated in accordance with
		local regulations.

3. Exposure estimate and reference to its source

3.1. Health						
Information for supporting exp	Information for supporting exposure scenario					
2.1.1	ECETOC TRA model used (May 2010 version)					
2.1.2	ECETOC TRA model used (May 2010 version)					
2.1.3	ECETOC TRA model used (May 2010 version)					
2.1.4	ECETOC TRA model used (May 2010 version)					
2.1.5	ECETOC TRA model used (May 2010 version)					
2.1.6	ECETOC TRA model used (May 2010 version)					
2.1.7	ECETOC TRA model used (May 2010 version)					
2.0 Environment						

3.2. Environment

Information for supporting exposure	Information for supporting exposure scenario				
2.2 EUS	SES				
4. Instructions for the downstream u	ser to assess whether he is working within the limits set by the exposure scenario				
I.1. Health					
Instructions - health No data available					
4.2. Environment					
Instructions - environment	The expected exposure will not exceed the PNEC-value if the risk management measures/operating conditions in paragraph 2 are followed.				

I Evnosuro sconar	100	1/1-1
I. EXPOSUIE SCEIIUI		U-ra

Personal	Care	ES	Ref.	no:	04a

Personal Care ES Ref. no: 04a EC type: Worker						
		PROC10 PROC11 PROC19 PC2 PC39				
Usage descriptors		AC8				
		SU20				
-		ERC8a, ERC11a				
Processes covered by activities a	associated with the tasks	of the Health Service				
		Adsorbents	Adsorbents			
		Use in industrial facilities (IS)				
Evaluation method		see section 3 in this exposure scenario				
2. Operating conditions and r	isk management mea	sures				
2.1 Sub-scenario control	ling worker exposure (F	PROC1)				
Personal Care: REACH Exemption	on					
PROC10	Application by roller or	brush.				
PROC11	Non-industrial spraying	g techniques.				
PROC19	Manual activities invol	ving hand contact				
Product features						
There is no additional information						
Operating conditions						
There is no additional information						
Risk management measures						
There is no additional information						
2.2 Sub-scenario control	ling environmental exp	osure (ERC8a, ERC11a)				
ERU8a	Wide use of non-reacti	ve excipient (without incorporation into the object or its surface, indoors)				
ERC11a	Wide use of articles wi	th a low release value (indoors)				
Product features						
There is no additional information						
Operating conditions						
Quantity used		Quantity used	7500000 t/year			
		Regionally applicable share of EU tonnage:	0.1			
		Regional amount of use (tons/year):	750000 t/year			
		Locally used part of regional tonnage:	7500 t/year			
Frequency and duration of use		Emission days (days/year):	365 days/year			
Environmental factors unaffected	by risk management	Local drinking water dilution factor:	900			
		Local seawater dilution factor:	1000			
Other operating conditions relate exposure	d to environmental	Proportion of release to air from the process (initial release before RMM):	U			
		Proportion of release to wastewater from the	1			
		process (initial release before				
2 F		RMM):	<u> </u>			
3.1. Health	erence to its source					
Information for supporting expos	ure scenario					
2.1	Not used.					
3.2. Environment						
Information for supporting expos	ure scenario					
2.2 EUSES						
4. Instructions for the downst	ream user to assess	whether he is working within the limits set by the exposure s	cenario			
4.1. Health						
Instructions - health	Not applica	able				
4.2. Environment						
Instructions - environment	The expec	ted exposure will not exceed the PNEC-value if the risk management me 2 are followed.	asures/operating conditions in			

1. Exposure scenario 04b

Personal Care E	S Ref. no: 04b
	FC type: Worker

Usage descriptors		PRO	ROC10, PROC11, PROC19 PC2, PC39		
			a FRC11a		
Processes covered by activities associated with the tasks of the Health Service					
		Cosm	etics, personal care products		
		Adsor	bents		
		Widel	y used by professional workers (PW)		
Evaluation method		see se	ection 3 in this exposure scenario		
2. Operating conditions and ri	sk manag	ement measures			
2.1 Sub-scenario controll	ling worker	exposure (PROC1	0, PROC11, PROC19)		
Personal Care: Exemption from the R	EACH Regula	ation			
PROC10	Application	n by roller or brush.			
PROC11 Non-industrial spraying tec	hniques.				
PROCIS Manual activities involving	hand contact	<u>i</u>			
Product features					
There is no additional information					
Operating conditions					
There is no additional information					
Risk management measures					
There is no additional information					
2.2 Sub-scenario controll	ing environ	mental exposure (ERC8a, ERC11a)		
ERC8a	Wide use of non-reactive excipient (without incorporation into the object or its surface, indoors)				
ERC11a	Wide use	of articles with a low	/ release value (indoors)		
Product features					
There is no additional information					
Quantity used			Quantity used	7500000 t/vear	
			Regionally applicable share of EU tonnage:	0.1	
			Regional amount of use (tons/vear):	750000 t/year	
			Locally used part of regional tonnage:	7500 t/year	
Frequency and duration of use			Emission days (days/year):	365 days/year	
Environmental factors unaffected	by risk man	agement	Local drinking water dilution factor:	900	
			Local seawater dilution factor:	1000	
Other operating conditions related	d to environr	nental	Proportion of release to air from the process (initial release	0	
exposure			Proportion of release to process wastewater (initial release	1	
			before RMM):		
3. Exposure estimate and refe	rence to it	s source			
3.1. Health					
Information for supporting exposu	ure scenario				
2.1	Not used				
3.2 Environment					
Information for supporting exposu	ure scenario				
L 2.2	2.2 EUSES				
4. Instructions for the downstream user to assess whether he is working within the limits set by the exposure scenario					
4.1. Health					
Instructions - health		Not applicable			
4.2. Environment					
Instructions - environment		The expected exp	osure will not exceed the PNEC-value if the risk management me	asures/operating conditions in	

1. Exposure scenario 04c

Personal Care ES Ref. no: 04c

EC type: Consumer						
Usage descriptors			PC2, PC39 AC8			
		SU20				
		ERC8	ERC8a, ERC11a			
Processes covered by activities a	ssociated w	ith tasks Consumer (sumer use, e.g. as a carrier in cosmetic products and products			
		persoi	hal care, perfumes and fragrances. Note: Only an environmental right for cosmotics and percental care products as ricks to human be	sk assessment is required under		
		REAC	in for cosmellos and personal care products, as fisks to human he	and are covered by other regulations		
		Health	a services			
		Adsor	bents			
5 1 <i>c</i> 1 1		Consu	imer Use (C)			
Evaluation method		see se	ection 3 in this exposure scenario			
2. Operating conditions and ri	isk manag	ement measures				
2.1 Sub-scenario controlling con	sumer expo	osure (PC2, PC39)				
Health services, adsorbents, cosr	netics, perso	onal care products				
PC2	Adsorben	ts				
PC39	cosmetics	, personal care prod	ucts			
Product features	•					
There is no additional information						
Additional operational conditions	related to ex	cosure of use Exem	classified as PBT or vPvB			
Pick management measures						
Conditions and massures related	to concume	rinformation	Not applicable	1 1		
and handling instructions						
2 Sub scenario controll	ing onviron	montal avpagura /F		1		
Adapte sub-scenario controli			RC6a, ERCTTA)			
There are no specific risk manage	ement meas	ures on operating co	nditions			
ERC8a	Wide use	of non-reactive excir	sign (without incorporation into the object or its surface indoors)			
	White use					
ERC11a	Wide use	of articles with a low	release value (indoors)			
Product features	÷					
There is no additional information						
				7500000		
Eroguonov and duration of use			Annual habitat tonnage (tons/year):	265 days/year		
Environmental factors unaffected	by risk man	agement	Local drinking water dilution factor: Local	900		
	by northan	agomon	seawater dilution factor: Regionally usable	1000		
Other operating conditions related	d to environr	nental	share of EU tonnage: Regional amount of use	10%		
exposure			(tons/year): Locally used part of regional	750000 t/year		
			tonnage: Daily amount per plant, (average)	7500 t/year		
				1030 kg/day		
			Major local resource faction	0.0005		
Risk management measures						
Conditions and measures related	to the exter	nal use of waste	Solid waste	It can be in harmony with the locals		
				regulations landfilled or		
			Retain sludge	fortilizers		
R Exposure estimate and refe	renco to i					
3. Exposure estimate and rele		is source				
Information for supporting exposure scenario						
2. Environment						
2.2	2.2 EUSES					
1 Instructions for the downst	Instructions for the downstream user to access whether he is werking within the limits act hu the average access					
Health Health						
		Net englissible				
Instructions - Nealth		NOL APPIICABLE				
t.2. Environment						
Instructions - environment		The expected expe	osure will not exceed the PNEC-value if the risk management mea	sures/operating conditions in		
paragraph 2 are followed.						

1. Exposure scenario 05a

Use in cleaning agents EC Ref. no: 05a

	EC type: Worker					
Usage descriptors PR			C2, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13 PC3, PC28,			
		PC31,	2C31, PC35, PC36, PC37			
		AC8, A	AC8, AC35			
		SU3	SU3			
		ERC2,	ERC2, ERC4, ERC8a, ERC8b, ERC9a, ERC9b			
Processes covered by activities a	issociated with Air Fresh	ener task	(S			
		Car ca	re products (spray, liquid)			
		Perfume	Perfumes, fragrances Polishes and way mixtures			
		FUISIE	s and wax mixtures			
		Water	ig and cleaning products (including solvent-based products)			
		Prenar	ations for water treatment			
		Use in	industrial facilities (IS)			
Evaluation method		see se	ction 3 in this exposure scenario			
2 Operating conditions and	risk management	measu				
z. Operating conditions and	i nanayement	measu				
2.1.1 Sub-scenario controll	ing worker exposure (P	PROC2, I	PROC4)			
Washing and cleaning products (including solvent-based p	oroducts)	. Car care products (spray, liquid).			
PROC2 Chemical production or refine	ning in a continuous closed	l process	with occasionally controlled exposure or in processes with equivalent of	control conditions		
55004						
PROC4	Chemical production w	ith poter	itial exposure.			
Product features						
Physical form			Coarse-grained solid, aqueous solution			
Concentration of the substance in the m	ixture/article		>25%			
			Unless otherwise stated			
Other product features			Volatility, low			
Operating conditions						
		-		365		
Frequency and duration of use		1	Emission days (days/	303		
		1		1 case per day		
0			time Exposure time	>411		
Other given operating conditions	that affect environmental			Not used.		
exposure			on the implementation of a suitable standard for occupational			
hy			nygiene.			
Risk management measures						
Conditions and measures in relation to personal			It is based on the implementation of a suitable standard for			
protection, hygiene and health ex	aminations		occupational hygiene.			
			Wear gloves, Safety glasses, Wear work clothes with			
			long sleeves.			
		1	For further specifications see section 8 of the safety data sheet.	L		
2.1.2 Subscenario controlli	ng worker exposure (Pl	ROC7)				
Washing and cleaning products (i	Washing and cleaning products (including solvent-based products). Car care products (sprav. liquid).					
PROC7	Spraying techniques in	n industri	al facilities.			
Product features						
		-	Coorea grained callid agreeus calution			
	interna (antiala					
Concentration of the substance in the m	IXTUI e/article	1				
Other product features			volatility high			
			volatinty, high			
Operating conditions						
Frequency and duration of use			Emission days (days/year):	365		
			Exposure time	1 case per day		
			Exposure time	>4 h		
Human factors that are not affect	ed by risk management		Includes skin contact area up to	hands and forearms (1500 cm ²)		
Other given operating conditions	that affect environmental	1	With local suction	Local ventilation efficiency		
exposure				minimum [%]: 95		
			It is based on the implementation of a suitable standard for			
occupationa			occupational hygiene.			
Risk management measures						
Conditions and measures in relat	ion to personal		It is based on the implementation of a suitable standard for			
protection, hygiene and health ex	aminations		occupational hygiene.			
			Wear gloves, Safety glasses, Wear work clothes with			
			long sleeves.			
			For further specifications see section 8 of the safety data sheet.			
2.1.3 Sub-scenario controll	ing worker exposure (P	ROC8a	PROC10)			
Washing and cloaning products (including solvort boost -	producte)	Car care products (sprov. liquid)			
PROC8a	Transport of the subst	ance or r	. Gai Gaie products (spray, inquid).			
PROC10 Application by rollor or br	sh		reparation (ming/disenarging) in non-specialized lacilities			
	S11.					

Product features				
Physical form		Coarse-grained solid, aqueous solution		
Concentration of the substance in the mixture/article		>25%		
		Unless otherwise stated		
Other product features		Volatility, low		
			365	
Frequency and duration of use		Emission days (days/	1 case per day	
		time Exposure time	>4 h	
Human factors that are not affec	ted by risk management	Includes skin contact area up to Local exhaust	Both hands (960 cm ²)	
Other given operating conditions	that affect	ventilation It is based on the	Not used.	
environmental exposure		implementation of an appropriate standard for		
		occupational hygiene.		
Risk management measures				
Conditions and measures in rela	tion to personal	It is based on the implementation of a suitable standard		
protection, hygiene and health e	xaminations	for occupational hygiene.		
		vvear gloves, Satety glasses, wear work clothes		
		For further specifications see section 8 of the safety data sheet.		
2.1.4 Sub-scenario control	ling worker exposure (PROC8	h PROC9 PROC13)		
Washing and cleaning products	(including solvent based product	te) Car care products (spray, liquid)		
PROC8b	Transport of the substance or	mixture (filling/discharging) in specialized facilities		
PROC9 Transport of substance or p	reparation in small containers (spec	cialized filling line, including weighing)		
PROC13	Treatment of objects by dippir	ng and pouring		
Product features				
Physical form		Coarse-grained solid, aqueous solution		
Concentration of the substance in the m	ixture/article	>25%		
		Unless otherwise stated		
Other product features		Volatility, low		
Operating conditions				
Frequency and duration of use		Emission days (days/	365	
		year): Exposure	1 case per day	
		time Exposure time	>4 h	
Human factors that are not affected by risk management		Includes skin contact area up to Local exhaust	Palms of both hands (480 cm2)	
Other given operating conditions	s that affect	implementation of an appropriate standard for occupational	Not used.	
environmental exposure		hygiene.		
Risk management measures				
Conditions and measures in rela	tion to personal	It is based on the implementation of a suitable standard		
protection, hygiene and health e	xaminations	for occupational hygiene.		
		Wear gloves, Safety glasses, Wear work clothes		
		with long sleeves.		
		For further specifications see section 8 of the safety data sheet.		
2.2 Sub-scenario control	ling environmental exposure (ERC2, ERC4, ERC8a, ERC8b, ERC9a, ERC9b)		
ERC2	Formulation into the mixture			
ERC4	Use of non-reactive auxiliaries	s in industrial equipment (without incorporation into the object or	its surface)	
ERC8a	Wide use of non-reactive excip	pient (without incorporation into the object or its surface, indoors)	
EPC9b				
ERCOD	Wide use of reactive excipient	(without incorporation into the object or its surface, indoors)		
ERC9a	Wide use of functional fluid (in	indoor spaces)		
ERC9b	Wide use of functional liquid (i	n outdoor areas)		
Product features				
Other product features		Easily biodegradable		
Operating conditions				
Quantity used		Quantity used	100000 t/year	
Other operating conditions related to environmental		Not applicable		
exposure exposure				
Risk management measures				
Technical conditions and on-site	measures aimed at reducing	Wastewater pretreatment	Neutralization must be carried	
or limiting waste and emissions a	affecting the air		out before discharge to the	
and soll		Treatment of waste water	Sewaye meannern plant Central biological treatment of	
			wastewater	
Conditions and measures related to	the sewage treatment plant	None/no one		

The proportion of the quantity used that will

be supplied by external waste management

Conditions and measures for external treatment of

sewage waste

No specific dates

Conditions and measures related to the external use of waste		al use of waste	Solid waste	May be landfilled or incinerated in accordance with local regulations.	
				Retain sludge.	Fertilizers
3. Exposu	re estimate and reference	ce to its sou	ce		
3.1.	Health				
Informa	tion for supporting exposu	ire scenario			
2.1.1		ECETOC TR	A model used (May 2	010 version)	
2.1.2		ECETOC TR	A model used (May 2	010 version)	
2.1.3	.3 ECETOC TRA model used (May 2			010 version)	
2.1.4		ECETOC TR	A model used (May 2	010 version)	
3.2.	Environment				
Informa	tion for supporting exposu	ire scenario			
2.2		EUSES			
4. Instruct	tions for the downstream	n user to ass	ess whether he is w	orking within the limits set by the exposure scenario	
4.1.	.1. Health				
Instructions - health No data available		No data available			
4.2.	Environment				
Instructi	ons - environment		The expected expos	sure will not exceed the PNEC-value if the risk management measur	res/operating conditions in

1. Exposure scenario 05b

Use in cleaning agents EC Ref. no: 05b

EC type: Worker						
Usage descriptors		PROC	C1, PROC4, PROC8a, PROC9, PROC10, PROC11, PROC13, PROC19 PC3, PC28,			
		PC31,	PC31, PC35, PC36, PC37			
		SU3	SU3			
		ERC2,	ERC2, ERC4, ERC8a, ERC8d, ERC9a, ERC9b			
Processes covered by activities a	ssociated with Air Fresh	ener task	(S			
		Car ca	re products (spray, liquid)			
		Perfume	es, fragrances			
		Washi	ng and cleaning products (including solvent-based products)			
		Water	softeners			
		Prepar	ations for water treatment			
Evaluation mothod		Widely	used by professional workers (PW)			
		see se	ction 3 in this exposure scenario			
2. Operating conditions and	i risk management	measu				
Sub-scenario controll	ing worker exposure (P	ROC1, I	PROC4, PROC13)			
Washing and cleaning products (incl PROC1 Chamical production or refu	uding solvent-based produ	icts). Car	care products (spray, liquid).			
r recorr chemical production of reli	ling in a closed process wi	In no like	innood of exposure of in processes with equivalent control conditions			
PROC4	Chemical production w	ith poter	ntial exposure.			
PROC13	Treatment of objects b	y dippin	g and pouring			
Product features						
Physical form			Coarse-grained solid, aqueous solution			
Concentration of the substance in the m	ixture/article		>25%			
			Unless otherwise stated			
Other product features		_	Volatility, low			
Operating conditions						
Amount used			Daily quantity per plant	10 kg		
Frequency and duration of use		ŝ	Emission days (days/year):	305 1 2222 per dev		
			Exposure time	15 minutes		
				Detergents and		
				dishwashing detergents		
				20 minutes		
			Exposure time	30 minutes		
				Car care products (spray, liquid)		
Human factors that are not affected	ed by risk management		Body weight:	70 kg Default		
			Tidal volume	10 m ³ /d Default		
Other given operating conditions	that affect environmental		Liquid	Checking the pH value.		
exposure			Coarse-grained solid	The product does not create		
		2	Local exhaust ventilation	Not used.		
Risk management measures						
Technical conditions and measure	es to control dispersion fr	om the	Not applicable			
source towards the worker			····			
2.1.2 Sub-scenario controll	ing worker exposure (P	ROC8a,	PROC10)			
Washing and cleaning products (i	ncluding solvent-based p	oroducts)	. Car care products (spray, liquid).			
PROC8a	Transport of the substa	ance or p	preparation (filling/discharging) in non-specialized facilities			
PROC10 Application by roller or bru	sh.					
Product features						
Physical form			Coarse-grained solid, aqueous solution			
Concentration of the substance in the m	ixture/article		>25%			
Other product features			Volatility low			
Quantity used			Daily quantity per plant	10 kg		
Frequency and duration of use			Emission days (days/year):	365		
			Exposure time	1 case per day		
			Exposure time	15 minutes		
				Detergents and dishwashing		
		Ę	Exposure time	30 minutes		
				Car care products (spray, liquid)		
Human factors that are not affected	ed by risk management		Body weight:	70 kg Default		
			Tidal volume	10 m ³ /d Default		
			includes skin contact area up to	BUIN NANOS (960 CM ²)		

Other given operating conditions that affect environmental	Liquid	Checking the pH value.
exposure	Coarse-grained solid	The product does not create
		any dust during application.
	Local exhaust ventilation	Not used.
Risk management measures		
Technical conditions and measures to control dispersion from the	Net applicable	
source towards the worker	Not applicable	
		1
2.1.3 Subscenario controlling worker exposure (PROC9)		
Washing and cleaning products (including solvent-based products	s). Car care products (spray, liquid).	
PROC9 Transport of substance or preparation in small containers (spe	cialized filling line, including weighing)	
Product features		
Physical form	Coarse-grained solid aqueous solution	
Concentration of the substance in the mixture/article	>25%	
	Linless otherwise stated	
Other product features	Volatility low	
	[rotating) for	
Operating conditions		
Quantity used	Daily quantity per plant	10 kg
Frequency and duration of use	Emission days (days/year):	365
	Exposure time	1 case per day
	Exposure time	15 minutes
		Detergents and dishwashing
		detergents
	Exposure time	30 minutes
		Car care products (spray, liquid)
Human factors that are not affected by risk management	Body weight:	70 kg Default
	Tidal volume	10 m ³ /d Default
	Includes skin contact area up to	Palms of both hands (480 cm2)
Other given operating conditions that affect environmental	Liquid	Checking the pH value.
exposure	Coarse-grained solid	The product does not create
		any dust during application.
	Local exhaust ventilation	Not used.
Risk management measures		
Risk management measures Technical conditions and measures to control dispersion from the	Not applicable	
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker	Not applicable	
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 21.4 Cub constraint control line worker	Not applicable	
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11)	Not applicable	
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11) Washing and cleaning products (including solvent-based products)	Not applicable) s). Car care products (spray, liquid).	
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based products PROC11	Not applicable))). Car care products (spray, liquid). ques.	
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based products PROC11 Non-industrial spraying technic Product features	Not applicable) s). Car care products (spray, liquid). ques.	
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product: PROC11 Non-industrial spraying technic Product features Physical form	Not applicable))))) Car care products (spray, liquid). ques. Coarse-grained solid, aqueous solution	
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product: PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article	Not applicable) s). Car care products (spray, liquid). ques. Coarse-grained solid, aqueous solution >25%	
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based products PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article	Not applicable) s). Car care products (spray, liquid). ques. Coarse-grained solid, aqueous solution >25% Unless otherwise stated	
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product: PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article Other product features	Not applicable) s). Car care products (spray, liquid). ques. Coarse-grained solid, aqueous solution >25% Unless otherwise stated Volatility, low	
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product: PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article Other product features	Not applicable) s). Car care products (spray, liquid). ques. Coarse-grained solid, aqueous solution >25% Unless otherwise stated Volatility, low	
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article Other product features Operating conditions Operating conditions	Not applicable) s). Car care products (spray, liquid). ques. Coarse-grained solid, aqueous solution >25% Unless otherwise stated Volatility, low	
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product: PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article Other product features Operating conditions Quantity used	Not applicable) s). Car care products (spray, liquid). ques. Coarse-grained solid, aqueous solution >25% Unless otherwise stated Volatility, low Daily quantity per plant 5	10 kg
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product: PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article Other product features Operating conditions Quantity used Frequency and duration of use	Not applicable) s). Car care products (spray, liquid). ques. Coarse-grained solid, aqueous solution >25% Unless otherwise stated Volatility, low Daily quantity per plant Emission days (days/year):	10 kg 365
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article Other product features Operating conditions Quantity used Frequency and duration of use Sub-scenario of use	Not applicable) s). Car care products (spray, liquid). ques. Coarse-grained solid, aqueous solution >25% Unless otherwise stated Volatility, low Daily quantity per plant Emission days (days/year): Exposure time	10 kg 365 1 case per day
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article Other product features Operating conditions Quantity used Frequency and duration of use Sub-scenario of use	Not applicable) s). Car care products (spray, liquid). ques. Coarse-grained solid, aqueous solution >25% Unless otherwise stated Volatility, low Daily quantity per plant Emission days (days/year): Exposure time Exposure time	10 kg 365 1 case per day 15 minutes
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article Other product features Operating conditions Quantity used Frequency and duration of use Frequency and duration of use	Not applicable) s). Car care products (spray, liquid). ques. Coarse-grained solid, aqueous solution >25% Unless otherwise stated Volatility, low Daily quantity per plant Emission days (days/year): Exposure time Exposure time	10 kg 365 1 case per day 15 minutes Detergents and dishwashing
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article Other product features Operating conditions Quantity used Frequency and duration of use Sub-scenario of use	Not applicable) s). Car care products (spray, liquid). ques. Coarse-grained solid, aqueous solution >25% Unless otherwise stated Volatility, low Daily quantity per plant Emission days (days/year): Exposure time Exposure time	10 kg 365 1 case per day 15 minutes Detergents and dishwashing detergents 20 minutes
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article Other product features Operating conditions Quantity used Frequency and duration of use Sub-scenario of use	Not applicable) s). Car care products (spray, liquid). ques. Coarse-grained solid, aqueous solution >25% Unless otherwise stated Volatility, low Daily quantity per plant Emission days (days/year): Exposure time Exposure time Exposure time	10 kg 365 1 case per day 15 minutes Detergents and dishwashing detergents 30 minutes
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article Other product features Operating conditions Quantity used Frequency and duration of use Sub-scenario of use	Not applicable) s). Car care products (spray, liquid). ques. Coarse-grained solid, aqueous solution >25% Unless otherwise stated Volatility, low Daily quantity per plant Emission days (days/year): Exposure time Exposure time Exposure time	10 kg 365 1 case per day 15 minutes Detergents and dishwashing detergents 30 minutes Car care products (spray, liquid)
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article Other product features Operating conditions Quantity used Frequency and duration of use Image: Concentration of the substance in the mixture/article	Not applicable) s). Car care products (spray, liquid). ques. Coarse-grained solid, aqueous solution >25% Unless otherwise stated Volatility, low Daily quantity per plant Emission days (days/year): Exposure time Exposure time Exposure time	10 kg 365 1 case per day 15 minutes Detergents and dishwashing detergents 30 minutes Car care products (spray, liquid) 70 kg
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article Other product features Operating conditions Quantity used Frequency and duration of use Human factors that are not affected by risk management	Not applicable) s). Car care products (spray, liquid). ques. Coarse-grained solid, aqueous solution >25% Unless otherwise stated Volatility, low Daily quantity per plant Emission days (days/year): Exposure time Exposure time Body weight: Tidd yours	10 kg 365 1 case per day 15 minutes Detergents and dishwashing detergents 30 minutes Car care products (spray, liquid) 70 kg Default 10 m3/d Default
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article Other product features Operating conditions Quantity used Frequency and duration of use Human factors that are not affected by risk management	Not applicable) s). Car care products (spray, liquid). ques. Coarse-grained solid, aqueous solution >25% Unless otherwise stated Volatility, low Daily quantity per plant Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Induction wine extent even up to	10 kg 365 1 case per day 15 minutes Detergents and dishwashing detergents 30 minutes Car care products (spray, liquid) 70 kg Default 10 m ³ /d Default
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article Other product features Operating conditions Quantity used Frequency and duration of use Human factors that are not affected by risk management	Not applicable) s). Car care products (spray, liquid). ques. Coarse-grained solid, aqueous solution >25% Unless otherwise stated Volatility, low Daily quantity per plant Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Includes skin contact area up to	10 kg 365 1 case per day 15 minutes Detergents and dishwashing detergents 30 minutes Car care products (spray, liquid) 70 kg Default 10 m³/d Default hands and forearms (1500 cm²) Checking the pit value
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product: PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article Other product features Operating conditions Quantity used Frequency and duration of use Human factors that are not affected by risk management Other given operating conditions that affect environmental Other given operating conditions that affect environmental	Not applicable) s). Car care products (spray, liquid). ques. Coarse-grained solid, aqueous solution >25% Unless otherwise stated Volatility, low Daily quantity per plant Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Includes skin contact area up to Liquid	10 kg 365 1 case per day 15 minutes Detergents and dishwashing detergents 30 minutes Car care products (spray, liquid) 70 kg Default 10 m ³ /d Default hands and forearms (1500 cm ²) Checking the pH value
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product: PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article Other product features Operating conditions Quantity used Frequency and duration of use Human factors that are not affected by risk management Other given operating conditions that affect environmental exposure Other given operating conditions that affect environmental	Not applicable) s). Car care products (spray, liquid). ques. Coarse-grained solid, aqueous solution >25% Unless otherwise stated Volatility, low Daily quantity per plant Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Includes skin contact area up to Liquid Coarse-grained solid	10 kg 365 1 case per day 15 minutes Detergents and dishwashing detergents 30 minutes Car care products (spray, liquid) 70 kg Default 10 m ³ /d Default hands and forearms (1500 cm ²) Checking the pH value The product does not create any drute does not create any drute does not create
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product: PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article Other product features Operating conditions Quantity used Frequency and duration of use Human factors that are not affected by risk management Other given operating conditions that affect environmental exposure Other given operating conditions that affect environmental	Not applicable) s). Car care products (spray, liquid). ques. Coarse-grained solid, aqueous solution >25% Unless otherwise stated Volatility, low Daily quantity per plant Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Includes skin contact area up to Liquid Coarse-grained solid	10 kg 365 1 case per day 15 minutes Detergents and dishwashing detergents 30 minutes Car care products (spray, liquid) 70 kg Default 10 m³/d Default hands and forearms (1500 cm²) Checking the pH value The product does not create any dust during application.
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product: PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article Other product features Other product features Operating conditions Quantity used Frequency and duration of use Human factors that are not affected by risk management Other given operating conditions that affect environmental exposure	Not applicable) s). Car care products (spray, liquid). ques. Coarse-grained solid, aqueous solution >25% Unless otherwise stated Volatility, low Daily quantity per plant Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Includes skin contact area up to Liquid Coarse-grained solid	10 kg 365 1 case per day 15 minutes Detergents and dishwashing detergents 30 minutes Car care products (spray, liquid) 70 kg Default 10 m³/d Default hands and forearms (1500 cm²) Checking the pH value The product does not create any dust during application. Not used.
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product: PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article Other product features Other product features Operating conditions Quantity used Frequency and duration of use Human factors that are not affected by risk management Other given operating conditions that affect environmental exposure Risk management measures	Not applicable) s). Car care products (spray, liquid). ques. Coarse-grained solid, aqueous solution >25% Unless otherwise stated Volatility, low Daily quantity per plant Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Includes skin contact area up to Liquid Coarse-grained solid	10 kg 365 1 case per day 15 minutes Detergents and dishwashing detergents 30 minutes Car care products (spray, liquid) 70 kg Default 10 m³/d Default hands and forearms (1500 cm²) Checking the pH value The product does not create any dust during application. Not used.
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product: PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article Other product features Other product features Operating conditions Quantity used Frequency and duration of use Human factors that are not affected by risk management Other given operating conditions that affect environmental exposure Risk management measures Technical conditions and measures to control dispersion from the	Not applicable) s). Car care products (spray, liquid). ques. Coarse-grained solid, aqueous solution >25% Unless otherwise stated Volatility, low Daily quantity per plant Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Includes skin contact area up to Liquid Coarse-grained solid Local exhaust ventilation	10 kg 365 1 case per day 15 minutes Detergents and dishwashing detergents 30 minutes Car care products (spray, liquid) 70 kg Default 10 m³/d Default hands and forearms (1500 cm²) Checking the pH value The product does not create any dust during application. Not used.
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product: PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article Other product features Operating conditions Quantity used Frequency and duration of use Frequency and duration of use Human factors that are not affected by risk management Other given operating conditions that affect environmental exposure Risk management measures Technical conditions and measures to control dispersion from the source towards the worker	Not applicable) s). Car care products (spray, liquid). ques. Coarse-grained solid, aqueous solution >25% Unless otherwise stated Volatility, low Daily quantity per plant Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Includes skin contact area up to Liquid Coarse-grained solid Local exhaust ventilation	10 kg 365 1 case per day 15 minutes Detergents and dishwashing detergents 30 minutes Car care products (spray, liquid) 70 kg Default 10 m³/d Default hands and forearms (1500 cm²) Checking the pH value The product does not create any dust during application. Not used.
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product: PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article Other product features Other product features Operating conditions Quantity used Frequency and duration of use Human factors that are not affected by risk management Other given operating conditions that affect environmental exposure Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 21.5 Sub-scenario controlling worker exposure (PROC19	Not applicable) s). Car care products (spray, liquid). pues. Coarse-grained solid, aqueous solution >25% Unless otherwise stated Volatility, low Daily quantity per plant Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Includes skin contact area up to Liquid Coarse-grained solid Local exhaust ventilation	10 kg 365 1 case per day 15 minutes Detergents and dishwashing detergents 30 minutes Car care products (spray, liquid) 70 kg Default 10 m³/d Default hands and forearms (1500 cm²) Checking the pH value The product does not create any dust during application. Not used.
Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 2.1.4 Sub-scenario controlling worker exposure (PROC11 Washing and cleaning products (including solvent-based product: PROC11 Non-industrial spraying technic Product features Physical form Concentration of the substance in the mixture/article Other product features Other product features Operating conditions Quantity used Frequency and duration of use Human factors that are not affected by risk management Other given operating conditions that affect environmental exposure Risk management measures Technical conditions and measures to control dispersion from the source towards the worker 21.5 Sub-scenario controlling worker exposure (PROC11)	Not applicable) s). Car care products (spray, liquid). pues. Coarse-grained solid, aqueous solution >25% Unless otherwise stated Volatility, low Daily quantity per plant Emission days (days/year): Exposure time Exposure time Body weight: Tidal volume Includes skin contact area up to Liquid Coarse-grained solid Local exhaust ventilation Not applicable)	10 kg 365 1 case per day 15 minutes Detergents and dishwashing detergents 30 minutes Car care products (spray, liquid) 70 kg Default 10 m³/d Default hands and forearms (1500 cm²) Checking the pH value The product does not create any dust during application. Not used.

Product features			
Physical form		Coarse-grained solid, aqueous solution	
Concentration of the substance in the mixture/article		>25%	
		Unless otherwise stated	
Other product features		Volatility, low	
Operating conditions			
Quantity used		Daily quantity per plant	10 kg
Frequency and duration of use		Emission days (days/year):	365
		Exposure time	1 case per day
		Exposure time	Detergents and dishwashing detergents
		Exposure time	30 minutes
			Car care products (spray, liquid)
Human factors that are not affect	cted by risk management	Body weight:	70 kg Default
		Tidal volume	10 m³/d Default
		Includes skin contact area up to	hands and forearms (1980 cm ²)
Other given operating conditions	s that affect environmental	Liquid	Checking the pH value.
exposure		Coarse-grained solid	The product does not create
		Local exhaust ventilation	Not used.
Rick management measures			
	uron to control diaparaion from	Not applicable	
the source towards the worker			
2.2 Sub-scenario contro	lling environmental exposure ()	ERC2 ERC4 ERC8a ERC8d ERC9a ERC9b)	
FRC2	Eormulation into the mixture		
ERC4	Use of non-reactive auxiliaries	in industrial equipment (without incorporation into the object or it	s surface)
ERC8a	Wide use of non-reactive excir	pient (without incorporation into the object or its surface indoors)	
ERC8d	Wide use of non-reactive excir	sign (without incorporation into the object or its surface, in outdoo	
ERC9a	Wide use of functional fluid (in	indoor spaces)	
ERC9b	Wide use of functional liquid (in	n outdoor areas)	
Product features			
Other product features		Easily biodegradable	
Operating conditions			
Amount used Other		Quantity used	100000 t/year
operating conditions related to er	nvironmental exposure	Not applicable	
Risk management measures			
Technical conditions and on-site limiting waste and emissions aff	e measures aimed at reducing or ecting the air and	Not applicable	
Conditions and measures related to	o the sewage treatment plant	None/no one	
Conditions and measures for ex	ternal treatment of	Not used.	
Conditions and measures relate	d to the external use of waste	Not used.	
3. Exposure estimate and refere	nce to its source		
3.1. Health			
Information for supporting experi	suro scopario		
2.1.1	FCFTOC TRA model used (May	2010 version)	
2.1.2	ECETOC TRA model used (May	2010 version)	
2.1.3	ECETOC TRA model used (May	2010 version)	
2.1.4	ECETOC TRA model used (May	2010 version)	
2.1.5	ECETOC TRA model used (May	2010 version)	
3.2. Environment			
Information for supporting expos	sure scenario		
2.2	EUSES		
4. Instructions for the downstrea	am user to assess whether he i	s working within the limits set by the exposure scenario	
4.1. Health			
Instructions - health	No data available		
4.2. Environment			
Instructions - environment	The expected expo	osure will not exceed the PNEC-value if the risk management me	asures/operating conditions in

1. Exposure scenario 05c

Use in cleaning agents EC Ref. no: 05c EC type: Consumer

Usage descriptors	PC3, PC28, PC31, PC35, PC36, PC37 AC8, AC35			
	SU21			
	ERC8a, ERC8d, ERC9a, ERC9b			
Processes covered by activities associated with	Air fresheners			
tasks	Car care products (spray, liquid)			
	Perfumes, fragrances			
	Polishes and wax compounds			
	Washing and cleaning products (including solvent-based products)			
	Water softeners			
	Preparations for water treatment			
	Consumer Use (C)			
Evaluation method	see section 3 in this exposure scenario			

2. Operating conditions and risk management measures

2.1 Sub-scenario controlling consumer exposure (PC3, PC28, PC31, PC35, PC36, PC37)

washing and cleaning products (including solvent-based products), Car care products (spray, liquid)		
PC3	air fresheners	
PC28	perfumes, scents	
PC31	polishes and wax mixtures	
PC35	laundry and cleaning products (including solvent-based products)	
PC36	water softeners	
PC37	preparations for water treatment	

Product features

Physical form	Coarse-grained solid, liquid
Concentration of the substance in the mixture/article	Contains up to 25% of the substance in the product, unless otherwise stated

Operating conditions

Human factors that are not affected by risk management	Includes skin contact area up to	Both hands (960 cm ²)
Additional operating conditions related to exposure to use Tidal vo	ume	26 m ³
		Standard values: Washing and
		cleaning/laundry products/
		cleaning fluids
	Includes use at spatial size from {0}.	20 m ³
	Body weight:	65 kg
		Standard values: Washing and
		cleaning/laundry products/
		cleaning fluids
	Hourly ventilation rate	0.6
	Liquids, aqueous solution	Checking the pH value.
	Coarse-grained solid	The product does not create
		any dust during application.

Risk management measures

Conditions and measures related to consumer information and bandling instructions		Not applicable		
2.2 Sub-scenario controlling environmental exposure (ERC8a, ERC8d, ERC9a, ERC9b)				
surface materials and paints, thin	ners, surface material removers, i	nk and toners, preparations for dyeing, finishing and impregnating	textiles; including bleaching	
agents and other auxiliary substar	nces used in the manufacturing pl	rocess		
There are no specific risk manage	ment measures on operating con	ditions.		
ERC8a	Wide use of non-reactive excipi-	ent (without incorporation into the object or its surface, indoors)		
ERC8d	Wide use of non-reactive excipient (without incorporation into the object or its surface, in outdoor areas)			
ERC9a	Wide use of functional fluid (in indoor spaces)			
ERC9b	Wide use of functional liquid (in outdoor areas)			
Product features				
Other product features Easily biodegradable				
Operating conditions				
Quantity used		Annual habitat tonnage (tons/year):	100000	
Frequency and duration of use		Period of use/release.	365 days/year	
Environmental factors unaffected	d by risk management	Local Drinking Water Dilution Factor:	10	
		Local Seawater Dilution Factor: Regionally	100	
Other operating conditions relate	d to environmental	Usable Share of EU Tonnage: Regional Amount	10%	
exposure		of Use (tons/year): Locally Used Portion of	10000 t/year	
		Regional Tonnage: Annual Habitat Tonnage (tons/	200 t/year	

year): Fraction of Major Local Source

0.01 t/d

0.0005

Risk management measures				
Conditions and measures related to the extern waste	nal use of	Solid waste	May be landfilled or incinerated in accordance with local regulations.	
		Retain sludge.	Fertilizers	
3. Exposure estimate and reference to its sou	irce			
3.1. Health				
Information for supporting exposure scenario				
.2. Environment				
Information for supporting exposure scenario				
2.2 EUSES	2.2 EUSES			
4. Instructions for the downstream user to as	sess whethe	r he is working within the limits set by the exposure so	cenario	
4.1. Health				
Instructions - health No of	data available			
4.2. Environment				
Instructions - environment The con	expected exp ditions in para	oosure will not exceed the PNEC-value if the risk managen graph 2 are followed.	ent measures/operating	

1. Exposure scenario 06

Paper industry EC Ref. no: 06 EC type: Worker

Usage descriptors PROC SU6b ERC4		5, PROC8 and PC26		
Processes covered by activities associated with tasks	Prepara Produc Produc Use in	rations for the treatment of paper and cardboard uction of wood and wooden products uction of pulp, paper and paper products n industrial facilities (IS)		
Evaluation method	see sec	ction 3 in this exposure scenario		
. Operating conditions and risk managem	ent measures			
1 Sub-scenario controlling worker exposure				
Mixing or mixing in batch production processes, large containers in non-specialized facilities	Transport of subs	tance or preparation (filling/discharging) from/to containers/		
Preparations for the treatment of paper and cardboard	d			
Product features				
Physical form		Liquid, aqueous solution		
Operating conditions				
Other given exercting conditions that effect envir	ronmontal	Ensure adaguate ventilation		
exposure	ronmentai	It is based on the implementation of a suitable		
		standard for occupational hygiene.		
Risk management measures				
Conditions and massures in relation to personal		It is based on the implementation of a suitable		
protection bygiene and health examinations		standard for occupational bygiene		
		Wear protective gloves/protective clothing and		
		safety glasses/face shield.		
		Use appropriate respiratory protection, an effective		
		dust mask		
		In case of insufficient ventilation, use suitable		
		breathing apparatus.		
		hreathing apparatus		
		For further specifications see section 8 of the safety data		
		sheet.		
2 Sub scenario controlling environmental expective (EPC4)				
Sub-scenario controlling environme	ental exposure (E	RC4)		
Mixing or mixing in batch production processes, large containers in non-specialized facilities	Transport of subs	tance or preparation (filling/discharging) from/to containers/		
Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard	Transport of subs	tance or preparation (filling/discharging) from/to containers/		
Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard ERC4 Use of non-re	Transport of subs d eactive auxiliaries	tance or preparation (filling/discharging) from/to containers/	its surface)	
Sub-scenario controlling environme Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard ERC4 Use of non-re Product features There is no additional information	Transport of subs	tance or preparation (filling/discharging) from/to containers/ in industrial equipment (without incorporation into the object or i	its surface)	
Sub-scenario controlling environme Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard ERC4 Use of non-re Product features There is no additional information Operating conditions	Transport of subs	tance or preparation (filling/discharging) from/to containers/ in industrial equipment (without incorporation into the object or i	its surface)	
Sub-scenario controlling environme Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard ERC4 Use of non-re Product features There is no additional information Operating conditions Amount used	Transport of subs	tance or preparation (filling/discharging) from/to containers/ in industrial equipment (without incorporation into the object or i	its surface)	
A Sub-scenario controlling environme Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard ERC4 Use of non-re Product features There is no additional information Operating conditions Amount used Frequency and duration of use Frequency and duration of use	Transport of subs	tance or preparation (filling/discharging) from/to containers/ in industrial equipment (without incorporation into the object or i Amount used Time of use/release.	Its surface)	
Z Sub-scenario controlling environme Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard ERC4 Use of non-re Product features There is no additional information Operating conditions Amount used Frequency and duration of use Other operating conditions related to environment	Transport of subs	tance or preparation (filling/discharging) from/to containers/ in industrial equipment (without incorporation into the object or i Amount used Time of use/release. Share of leachate in wastewater from widespread	its surface) 1000 t/year 300 days/year 67 kg/day	
Sub-scenario controlling environme Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard ERC4 Use of non-re Product features There is no additional information Operating conditions Amount used Frequency and duration of use Other operating conditions related to environment exposure	Transport of subs	Amount used Time of use/release. Share of leachate in wastewater from widespread use:	its surface) 1000 t/year 300 days/year 67 kg/day	
A Sub-scenario controlling environme Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard ERC4 Use of non-re Product features There is no additional information Operating conditions Amount used Frequency and duration of use Other operating conditions related to environment exposure Risk management measures Risk management measures	Transport of subs	tance or preparation (filling/discharging) from/to containers/ in industrial equipment (without incorporation into the object or i Amount used Time of use/release. Share of leachate in wastewater from widespread use:	its surface) 1000 t/year 300 days/year 67 kg/day	
A Sub-scenario controlling environme Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard ERC4 Use of non-red Product features Use of non-red There is no additional information Operating conditions Amount used Frequency and duration of use Other operating conditions related to environment exposure Risk management measures Conditions and measures related to the sewage Conditions and measures	Transport of subs	tance or preparation (filling/discharging) from/to containers/ in industrial equipment (without incorporation into the object or i Amount used Time of use/release. Share of leachate in wastewater from widespread use:	its surface) 1000 t/year 300 days/year 67 kg/day It applies	
A Sub-scenario controlling environme Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard ERC4 Use of non-red Product features Use of non-red There is no additional information Operating conditions Amount used Frequency and duration of use Other operating conditions related to environment exposure Risk management measures Conditions and measures related to the sewage treatment plant Conditions and measures	Transport of subs	Amount used Time of use/release. Share of leachate in wastewater from widespread use: Municipal wastewater treatment plant All polluted wastewater must be treated in an industrial	its surface) 1000 t/year 300 days/year 67 kg/day It applies	
A Sub-scenario controlling environme Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard ERC4 Use of non-red Product features Use of non-red Product features Amount used Frequency and duration of use Other operating conditions related to environment exposure Risk management measures Conditions and measures related to the sewage treatment plant	Transport of subs	Amount used Time of use/release. Share of leachate in wastewater from widespread use: Municipal wastewater treatment plant All polluted wastewater must be treated in an industrial or municipal treatment plant, which can	its surface) 1000 t/year 300 days/year 67 kg/day It applies	
A Sub-scenario controlling environme Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard ERC4 Use of non-realized facilities Product features Use of non-realized facilities Product features There is no additional information Operating conditions Amount used Frequency and duration of use Other operating conditions related to environment exposure Risk management measures Conditions and measures related to the sewage treatment plant	Transport of subs	Amount used Time of use/release. Share of leachate in wastewater from widespread use: Municipal wastewater treatment plant All polluted wastewater must be treated in an industrial or municipal treatment plant, which can perform both initial treatment and subsequent	its surface) 1000 t/year 300 days/year 67 kg/day It applies	
A Sub-scenario controlling environme Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard ERC4 Use of non-realized facilities Product features Use of non-realized facilities Product features Operating conditions Amount used Frequency and duration of use Other operating conditions related to environment exposure Risk management measures Conditions and measures related to the sewage treatment plant Item sewage	Transport of subs	Amount used Time of use/release. Share of leachate in wastewater from widespread use: Municipal wastewater treatment plant All polluted wastewater must be treated in an industrial or municipal treatment plant, which can perform both initial treatment and subsequent treatment.	its surface) 1000 t/year 300 days/year 67 kg/day It applies	
A Sub-scenario controlling environme Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard ERC4 Use of non-re Product features There is no additional information Operating conditions Amount used Frequency and duration of use Other operating conditions related to environment exposure Risk management measures Conditions and measures related to the sewage treatment plant Exposure estimate and reference to its set	Transport of subs d eactive auxiliaries ntal	Amount used Time of use/release. Share of leachate in wastewater from widespread use: Municipal wastewater treatment plant All polluted wastewater must be treated in an industrial or municipal treatment plant, which can perform both initial treatment and subsequent treatment.	its surface) 1000 t/year 300 days/year 67 kg/day It applies	
A Sub-scenario controlling environme Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard ERC4 Use of non-registry Product features There is no additional information Operating conditions Amount used Frequency and duration of use Other operating conditions related to environment exposure Risk management measures Conditions and measures related to the sewage treatment plant Back State and reference to its state I.	Transport of subs d eactive auxiliaries ntal source	Amount used Time of use/release. Share of leachate in wastewater from widespread use: Municipal wastewater treatment plant All polluted wastewater must be treated in an industrial or municipal treatment plant, which can perform both initial treatment and subsequent treatment.	its surface) 1000 t/year 300 days/year 67 kg/day It applies	
A Sub-scenario controlling environme Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard ERC4 Use of non-registry Product features There is no additional information Operating conditions Amount used Frequency and duration of use Other operating conditions related to environment exposure Risk management measures Conditions and measures related to the sewage treatment plant B. Exposure estimate and reference to its state Information for supporting exposure scenario	Transport of subs d eactive auxiliaries ntal source	Amount used Time of use/release. Share of leachate in wastewater from widespread use: Municipal wastewater treatment plant All polluted wastewater must be treated in an industrial or municipal treatment plant, which can perform both initial treatment and subsequent treatment.	its surface) 1000 t/year 300 days/year 67 kg/day It applies	
A Sub-scenario controlling environme Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard ERC4 Use of non-registry Use of non-registry Product features There is no additional information Operating conditions Amount used Frequency and duration of use Other operating conditions related to environment exposure Risk management measures Conditions and measures related to the sewage treatment plant Exposure estimate and reference to its state 1. Health Information for supporting exposure scenario 2.1 No data available 1	Transport of subs d eactive auxiliaries ntal source	Amount used Time of use/release. Share of leachate in wastewater from widespread use: Municipal wastewater treatment plant All polluted wastewater must be treated in an industrial or municipal treatment plant, which can perform both initial treatment and subsequent treatment.	its surface) 1000 t/year 300 days/year 67 kg/day It applies	
A Sub-scenario controlling environme Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard ERC4 Use of non-reference Product features Use of non-reference to its statement Product features Operating conditions Amount used Frequency and duration of use Other operating conditions related to environment exposure Conditions and measures Conditions and measures related to the sewage treatment plant Information for supporting exposure scenario 2.1 No data available 2. Environment	Transport of subs d eactive auxiliaries ntal source	Amount used Time of use/release. Share of leachate in wastewater from widespread use: Municipal wastewater treatment plant All polluted wastewater must be treated in an industrial or municipal treatment plant, which can perform both initial treatment and subsequent treatment.	its surface) 1000 t/year 300 days/year 67 kg/day It applies	
A Sub-scenario controlling environme Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard ERC4 Use of non-regime Product features There is no additional information Operating conditions Amount used Frequency and duration of use Other operating conditions related to environment exposure Risk management measures Conditions and measures related to the sewage treatment plant Exposure estimate and reference to its state 1. Health Information for supporting exposure scenario 2. Bayeontion	ntal exposure (E	Amount used Time of use/release. Share of leachate in wastewater from widespread use: Municipal wastewater treatment plant All polluted wastewater must be treated in an industrial or municipal treatment plant, which can perform both initial treatment and subsequent treatment.	its surface) 1000 t/year 300 days/year 67 kg/day It applies	
Arr Sub-scenario controlling environme Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard ERC4 Use of non-regime Product features There is no additional information Operating conditions Amount used Frequency and duration of use Other operating conditions related to environment exposure Risk management measures Conditions and measures related to the sewage treatment plant S. Exposure estimate and reference to its set. 1. Health Information for supporting exposure scenario 2.1 No data available 2.2 No data available	Transport of subs d eactive auxiliaries ntal source	Amount used Time of use/release. Share of leachate in wastewater from widespread use: Municipal wastewater treatment plant All polluted wastewater must be treated in an industrial or municipal treatment plant, which can perform both initial treatment and subsequent treatment.	its surface) 1000 t/year 300 days/year 67 kg/day It applies It applies	
Arr Sub-scenario controlling environme Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard ERC4 Use of non-regime Product features There is no additional information Operating conditions Amount used Frequency and duration of use Other operating conditions related to environment exposure Risk management measures Conditions and measures related to the sewage treatment plant S. Exposure estimate and reference to its statement plant Information for supporting exposure scenario 2.1 No data available Information for supporting exposure scenario 2.2 No data available Instructions for the downstream user to	antal exposure (E Transport of subs d eactive auxiliaries ntal source	Amount used Time of use/release. Share of leachate in wastewater from widespread use: Municipal wastewater treatment plant All polluted wastewater must be treated in an industrial or municipal treatment plant, which can perform both initial treatment and subsequent treatment.	its surface) 1000 t/year 300 days/year 67 kg/day It applies It applies Scenario	
A Sub-scenario controlling environme Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard ERC4 Use of non-registry Product features There is no additional information Operating conditions Amount used Frequency and duration of use Other operating conditions related to environment exposure Risk management measures Conditions and measures related to the sewage treatment plant S. Exposure estimate and reference to its set. 1. Health Information for supporting exposure scenario 2.1 No data available	assess whethe	Amount used Time of use/release. Share of leachate in wastewater from widespread use: Municipal wastewater treatment plant All polluted wastewater must be treated in an industrial or municipal treatment plant, which can perform both initial treatment and subsequent treatment.	its surface) 1000 t/year 300 days/year 67 kg/day It applies It applies Scenario	
A Sub-scenario controlling environme Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard ERC4 Use of non-regime Product features There is no additional information Operating conditions Amount used Frequency and duration of use Other operating conditions related to environment exposure Risk management measures Conditions and measures related to the sewage treatment plant B. Exposure estimate and reference to its state A.1. Health Information for supporting exposure scenario 2.1 No data available A.2. Environment Information for supporting exposure scenario 2.1 No data available A.1. Health Information for supporting exposure scenario 2.1. Health Information for supporting exposure scenario 2.2 No data available Instructions for the downstream user to 1. Health	Transport of subs d eactive auxiliaries ntal source assess whethe	Amount used Time of use/release. Share of leachate in wastewater from widespread use: Municipal wastewater treatment plant All polluted wastewater must be treated in an industrial or municipal treatment plant, which can perform both initial treatment and subsequent treatment.	its surface) 1000 t/year 300 days/year 67 kg/day It applies It applies scenario	
A Sub-scenario controlling environme Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard ERC4 Use of non-regime Product features There is no additional information Operating conditions Amount used Frequency and duration of use Other operating conditions related to environment exposure Risk management measures Conditions and measures related to the sewage treatment plant S. Exposure estimate and reference to its state A.1. Health Information for supporting exposure scenario 2.1 No data available 2.2 Environment Information for supporting exposure scenario 2.1. Health Instructions for the downstream user to 1. Health Instructions - health N	Transport of subs d eactive auxiliaries ntal source assess whethe	Amount used Time of use/release. Share of leachate in wastewater from widespread use: Municipal wastewater treatment plant All polluted wastewater must be treated in an industrial or municipal treatment plant, which can perform both initial treatment and subsequent treatment.	its surface) 1000 t/year 300 days/year 67 kg/day It applies It applies Scenario	
A Sub-scenario controlling environme Mixing or mixing in batch production processes, large containers in non-specialized facilities Preparations for the treatment of paper and cardboard ERC4 Use of non-regime Product features There is no additional information Operating conditions Amount used Frequency and duration of use Other operating conditions related to environmene exposure Risk management measures Conditions and measures related to the sewage treatment plant Information for supporting exposure scenario 2.1 No data available 2.2 Environment Information for supporting exposure scenario 2.2 No data available Instructions for the downstream user to 1. Health Instructions - health Instructions - health	assess whethe	Amount used Time of use/release. Share of leachate in wastewater from widespread use: Municipal wastewater treatment plant All polluted wastewater must be treated in an industrial or municipal treatment plant, which can perform both initial treatment and subsequent treatment.	its surface) 1000 t/year 300 days/year 67 kg/day It applies It applies Scenario	

1. Exposure scenario 07a

Construction application ES Ref. no: 07a EC type: Worker

5	
Usage descriptors	PROC2, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC14,
	PROC19, PROC21, PROC24
	AC4
	SU2a, SU2b, SU10, SU19
	ERC5, ERC8c, ERC8f, ERC10a, ERC10b, ERC11a, ERC11b, ERC12a
Processes covered by activities associated with the tasks Pre	parations for the construction industry, not elsewhere specified.
	Formulation [mixing] of preparations and/or their repackaging (except alloys)
	Construction and construction work
	Use in industrial facilities (IS)
Evaluation method	see section 3 in this exposure scenario
2. Operating conditions and risk management	measures

2.1 Sub-scenario controlling worker exposure (PROC2, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC10, PROC11,

PROC13, PROC14, PROC19, PROC21, PROC24)

Chemical production or refining in a continuous closed process with occasionally controlled exposure or in processes with equivalent control conditions. Chemical production with potential exposure. Mixing or mixing in batch production processes. Spraying techniques in industrial facilities. Transport of the substance or preparation (filling/discharging) in non-specialized facilities. Transport of the substance or mixture (filling/discharging) in specialized facilities. Application by roller or brush. Non-industrial spraying techniques. Treatment of objects by dipping and pouring. tableting, compression, extrusion or pelletizing. Manual activities involving hand contact.

Low-energy processing of substances bound in materials and/or objects and handling of these substances. Processing of substances bound in materials and/or objects using large (mechanical) energy

Preparations for construction, not elsewhere specified.

PROC2	Chemical production or refining in a continuous closed process with occasionally controlled exposure or in processes with equivalent
	control conditions
PROC4	Chemical production with potential exposure.
PROC5	Mixing or mixing in batch production processes
PROC7	Spraying techniques in industrial facilities.
PROC8a	Transport of the substance or preparation (filling/discharging) in non-specialized facilities
PROC8b	Transport of the substance or mixture (filling/discharging) in specialized facilities
PROC10	Application by roller or brush.
PROC11	Non-industrial spraying techniques.
PROC13	Treatment of objects by dipping and pouring
PROC14	Tableting, compression, extrusion, pelletization, granulation
PROC19	Manual activities involving hand contact
PROC21	Low-energy processing of substances bound in materials and/or objects and handling of these substances
PROC24	Processing of substances bound in materials and/or objects using large (mechanical) energy
Product features	

Physical form	Liquid, aqueous solution
Concentration of the substance in the mixture/article	Contains a proportion of the substance in the product up to 1%, unless otherwise stated
Operating conditions	

Other given operating conditions that affect environmental	Ensure adequate ventilation	
exposure	It is based on the implementation of a suitable standard for	
	occupational hygiene.	

Risk management measures

Conditions and measures in relation to personal protection,	It is based on the implementation of a suitable standard for	
nyglene and nealth examinations	occupational hygiene.	
	Wear protective gloves/protective clothing and safety	
	glasses/face shield.	
	Use appropriate respiratory protection, an effective	
	dust mask	
	In case of insufficient ventilation, use suitable breathing	
	equipment, (Dust/Mist)	
	In high concentrations: Use self-contained	
	breathing apparatus.	
	For further specifications see section 8 of the safety data sheet.	

2.2 Sub-scenario controlling environmental exposure (ERC5, ERC8c, ERC8f, ERC10a, ERC10b, ERC11a, ERC11b, ERC12a)

Chemical production or refining in a continuous closed process with occasionally controlled exposure or in processes with equivalent control conditions. Chemical production with potential exposure. Mixing or mixing in batch production processes. Spraying techniques in industrial facilities. Transport of the substance or preparation (filling/discharging) in non-specialized facilities. Transport of the substance or mixture (filling/discharging) in specialized facilities. Application by roller or brush. Non-industrial spraying techniques. Treatment of objects by dipping and pouring. tableting, compression, extrusion or pelletizing.

Manual activities involving hand contact.

Low-energy processing of substances bound in materials and/or objects and handling of these substances. Processing of substances bound in materials and/or objects using large (mechanical) energy

Preparations for construction, not elsewhere specified.			
ERC5	Use in industrial equipment that leads to incorporation into the object / its surface		
ERC8c	Wide use that leads to incorporation into the object / its surface (in interior spaces)		

ERC8f	Wide use that leads to incorporation into the object / its surface (outdoors)
ERC10a	Wide use of articles with a low release value (outdoors)
ERC10b	Widespread use of articles with a high release value or intentional release (outdoors)
ERC11a	Wide use of articles with a low release value (indoors)
ERC11b	Widespread use of articles with a high release value or intentional release (indoors)
ERC12a	Processing of objects in industrial facilities with a low release value

Product features

Amount used		Amount used Time	1500 t/year	
of use		of use/release.	365 days/year	
ns related to environ	mental	Share of releases to soil from widespread use (only	3699 kg/day	
exposure		regionally):	Regional information	
		Share of leachate in wastewater from widespread use: 411 kg/	day	
related to the sewage	treatment plant	Municipal wastewater treatment plant	It applies	
		All polluted wastewater must be treated in an industrial or municipal treatment plant, which can perform both initial treatment and subsequent treatment.		
d reference to its so	ource		·	
ng exposure scenario)			
2.1 No data available				
S.2. Environment				
ng exposure scenario)			
wnstream user to a	ssess whether he	is working within the limits set by the exposure scenario		
4.1. Health				
Instructions - health No data available				
Instructions - environment The expected exposure will not exceed the PNEC-value if the risk management measures/operating conditions in paragraph 2 are followed.			asures/operating conditions in	
	related to the sewage d reference to its so ng exposure scenario ng exposure scenario wwnstream user to a ent	related to environmental related to environmental d reference to its source ng exposure scenario ng exposure scenario No data available ent The expected exp paragraph 2 are for	Share of releases to soil from widespread use (only regionally): Share of releases to soil from widespread use (only regionally): Share of leachate in wastewater from widespread use: 411 kg/ related to the sewage treatment plant All polluted wastewater treatment plant All polluted wastewater must be treated in an industrial or municipal treatment plant, which can perform both initial treatment and subsequent treatment. d reference to its source Ing exposure scenario Ing exposure scenario No data available Intervent the is working within the limits set by the exposure scenario Intervent the is working within the limits set by the exposure scenario Intervent the is working within the limits set by the exposure scenario Intervent the is working within the limits set by the exposure scenario Intervent the is working within the limits set by the exposure scenario Intervent the expected exposure will not exceed the PNEC-value if the risk management method paragraph 2 are followed.	

1. Exposure scenario 07b

Construction application ES Ref. no: 07b EC type: Worker

Usage descriptors	PROC2, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC14,
	PROC19, PROC21, PROC24
	AC4
	SU2a, SU2b, SU10, SU19
	ERC5, ERC8c, ERC8f, ERC10a, ERC10b, ERC11a, ERC11b, ERC12a
Processes covered by activities associated with the tasks Pre	arations for the construction industry, not elsewhere specified.
	Formulation [mixing] of preparations and/or their repackaging (except alloys)
	Construction and construction work
	Widely used by professional workers (PW)
Evaluation method	see section 3 in this exposure scenario
2. Operating conditions and risk managemen	t measures

2.1 Subscenario controlling worker exposure (PROC2, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC10, PROC11,

PROC13, PROC14, PROC19, PROC21, PROC24)

Chemical production or refining in a continuous closed process with occasionally controlled exposure or in processes with equivalent control conditions. Chemical production with potential exposure. Mixing or mixing in batch production processes. Spraying techniques in industrial facilities. Transport of the substance or preparation (filling/discharging) in non-specialized facilities. Transport of the substance or mixture (filling/discharging) in specialized facilities. Application by roller or brush. Non-industrial spraying techniques. Treatment of objects by dipping and pouring. tableting, compression, extrusion or pelletizing.

Low-energy processing of substances bound in materials and/or objects and handling of these substances. Processing of substances bound in materials and/or objects using large (mechanical) energy

Preparations for construction, not elsewhere specified.

Manual activities involving hand contact.

PROC2	Chemical production or refining	in a continuous closed process with occasionally controlled exposure or in processes with equivalent
	control conditions	
PROC4	Chemical production with poter	ntial exposure.
PROC5	Mixing or mixing in batch produ	iction processes
PROC7	Spraying techniques in industri	al facilities.
PROC8a	Transport of the substance or p	preparation (filling/discharging) in non-specialized facilities
PROC8b	Transport of the substance or r	nixture (filling/discharging) in specialized facilities
PROC10	Application by roller or brush.	
PROC11	Non-industrial spraying techniq	ues.
PROC13	Treatment of objects by dipping	g and pouring
PROC14	Tableting, compression, extrust	ion, pelletization, granulation
PROC19	Manual activities involving hand	d contact
PROC21	Low-energy processing of subs	tances bound in materials and/or objects and handling of these substances
PROC24	Processing of substances bour	nd in materials and/or objects using large (mechanical) energy
Product features		
Physical form		Liquid, coarse-grained solid

 Concentration of the substance in the mixture/article
 Contains a proportion of the substance in the product up to 1%, unless otherwise stated

 Operating conditions
 Other given operating conditions that affect environmental
 Liquids
 Checking the pH value.

exposure	Coarse-grained solid	The product does not create any dust during application.
Risk management measures		
Technical conditions and measures at process level to prevent	Not applicable	

recrifical conditions and measures at process level to prevent	Not applicable	
release		
Conditions and measures in relation to personal protection,	For further specifications see section 8 of the safety data sheet.	
hygiene and health examinations		

Sub-scenario controlling environmental exposure (ERC5, ERC8c, ERC8f, ERC10a, ERC10b, ERC11a, ERC11b, 2.2 ERC12a)

Chemical production or refining in a continuous closed process with occasionally controlled exposure or in processes with equivalent control conditions. Chemical production with potential exposure. Mixing or mixing in batch production processes. Spraying techniques in industrial facilities. Transport of the substance or preparation (filling/discharging) in non-specialized facilities. Transport of the substance or mixture (filling/discharging) in specialized facilities. Application by roller or brush. Non-industrial spraying techniques. Treatment of objects by dipping and pouring. tableting, compression, extrusion or pelletizing. Manual activities involving hand contact.

Low-energy processing of substances bound in materials and/or objects and handling of these substances. Processing of substances bound in materials and/or objects using large (mechanical) energy

Preparations for construction, not elsewhere specified

ERC5	Use in industrial equipment that leads to incorporation into the object / its surface		
ERC8@Wide use leading to	ERC8qWide use leading to incorporation into an object / its surface (in indoor spaces)		
ERC8f Wide use leading to	p incorporation into an object / its surface (outdoors)		
ERC10aWide use of article	s with a low release value (outdoors)		
Wide use of articles with a high release value or intentional release (in outdoor ERC10b spaces)			
ERC11a	Wide use of articles with a low release value (indoors)		
ERC11b	Widespread use of articles with a high release value or intentional release (indoors)		
ERC12a	Processing of objects in industrial facilities with a low release value		

Product features				
There is no additional information				
Operating conditions				
Quantity used		Amount used Time	1500 t/year	
Frequency and duration of use		of use/release.	365 days/year	
Other operating conditions related to environ exposure	nmental	Not applicable		
Risk management measures				
Conditions and measures related to the sewage treatment plant Municipal wastewater treatment plant Not applicable				
3. Exposure estimate and reference to its s	ource			
3.1. Health				
Information for supporting exposure scenario				
2.1 No data available				
3.2. Environment				
Information for supporting exposure scenari	io			
2.2 No data avai	2.2 No data available			
4. Instructions for the downstream user to assess whether he is working within the limits set by the exposure scenario				
4.1. Health				
Instructions - health No data available				
4.2. Environment				
Instructions - environment The expected exposure will not exceed the PNEC-value if the risk management measures/operating condition in paragraph 2 are followed.		measures/operating conditions		

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	102.10		ગળના		

Construction application ES Ref. no: 07c

EC type	e: Consume	r			
Usage descriptors		PC1, PC	PC1, PC9b AC4		
		SU2a, S	SU2b, SU10, SU19		
ERC8		ERC8c,	C8c, ERC8f, ERC10a, ERC10b, ERC11a, ERC11b		
Processes covered by activities associated with tasks Construction and construction work					
		Formula	ation [mixing] of preparations and/or their repackaging (except a	lloys)	
M		Mining i	ndustry (excluding offshore industries)		
Cc		Consum	ner Use (C)		
Evaluation method see section 3 in this exposure scenario					
2. Operating conditions and r	isk manag	ement measures			
2.1 Sub-scenario contro	lling consu	imer exposure (PC	1, PC9b)		
Preparations for construction, no	t elsewhere	specified.			
Building materials and building ma	aterial for inte	ernal use: building ma	asonry material, ceramic, metal, plastic and wooden building mate	rial, insulation material.	
Building materials and building m	naterials for	outdoor use: Mason	ry materials, materials for road construction, ceramic, metal, pla	stic and wooden building	
materials, insulation materials.					
	adhesives	, sealants			
PC9b	fillers, sea	llants, plasters, sculp	ting clay		
Product features					
Physical form			Coarse-grained solid, liquid		
Concentration of the substance in t	the		Contains a proportion of the substance in the product up to 1%, unless of	therwise stated	
mixture/article Operating condition	าร				
Additional operating conditions re	elated to ex	posure Use Indoor a	nd outdoor use.		
· · · · · · · · · · · · · · · · · · ·			Liquids	Checking the pH value.	
			Coarse-grained solid	The product does not create	
			5	any dust during application.	
Risk management measures			-		
Conditions and moasures relator	to consum	or information	Not applicable		
and handling instructions					
	lling onvira	nmentel eviceoure		ı	
Sub-scenario contro	ning enviro	onmental exposure	(ERCOC, ERCOI, ERCIUA, ERCIUD, ERCITA, ERCITD)		
Preparations for construction, no	t elsewhere	specified.			
	Wide use	that leads to incorpo	ration into the object / its surface (in interior spaces)		
ERC10a	Wide use	that leads to incorpo	ration into the object / its surface (outdoors)		
ERC10b	Wideopror	of articles with a low	release value (outdoors)		
	widespie	au use of afficies with	Ta high release value of intentional release (outdoors)		
ERC11a	Wide use	of articles with a low	release value (indoors)		
ERC11b	Widesprea	ad use of articles with	h a high release value or intentional release (indoors)		
	111000prot				
Product features					
There is no additional information	n				
	11				
Operating conditions				1500	
			Annual habitat tonnage (tons/year):	1500	
Frequency and duration of			Period of use/release.	365 days/year	
use Risk management measures					
There is no additional information	n				
3. Exposure estimate and refe	erence to it	ts source			
3.1. Health					
Information for supporting expos		0			
2.1	Information for supporting exposure scenario 21				
Information for supporting expos	ure scenari	0			
2.2	LUSES				
4. Instructions for the downstream user to assess whether he is working within the limits set by the exposure scenario					
4.1. Health					
Instructions - health		No data available			
4.2. Environment					
		The overested are	sure will not exceed the DNEC value if the risk menagement of	occurres/operating conditions in	
manucuons - environment		naragraph 2 are fol	isure will not exceed the FINEC-value if the risk management m llowed	sasures/operating conditions in	
		I paragraph z ale 10			

1. Exposure scenario 06					
Production of polymers/Production of plastics ES Ref. no: 08 EC type: Worker					
Usage descriptors PRC		OC3, PROC5, PROC8a, PROC8b PC32	, PROC5, PROC8a, PROC8b PC32		
. .	SU	11, SU12			
ERC1,		C1, ERC6b			
Processes covered by activities as	sociated with tasks Polymer	preparations and compounds			
	Pro	duction of rubber products			
	Pro	duction of plastic products, including amalgamation and conversion			
Evoluction mothod	Use	e in industrial facilities (IS)	dustrial facilities (IS)		
Evaluation method	see	section 3 in this exposure scenario			
2. Operating conditions and	l risk management me	easures			
2.1 Sub-scenario controlling wor	ker exposure (PROC3, PR	DC5, PROC8a, PROC8b)			
Manufacture or formulation in the o	chemical industry in closed b	atch processes with occasionally controlled exposure or in processes	with equivalent control		
conditions. Mixing or mixing in bate	ch production processes. Tra	ansport of the substance or preparation (filling/discharging) in non-spec	ialized facilities. Transport of the		
substance or mixture (filling/discha	arging) in specialized facilitie	S			
polymer preparations and compou	nds				
PROC3	Manufacture or formulation	in the chemical industry in closed batch processes with occasionally c	ontrolled exposure or in		
DDOO5	processes with equivalent	control conditions			
PROC5	Mixing or mixing in batch p	roduction processes			
PROC8a	Transport of the substance	or preparation (filling/discharging) in non-specialized facilities			
PROC8b	Transport of the substance	or mixture (filling/discharging) in specialized facilities			
Product features					
Physical form		Liquid, aqueous solution			
Concentration of the substance in the mix	kture/article	Contains a proportion of the substance in the product up to 1%, unless	otherwise stated		
Operating conditions					
Other given operating conditions the	nat affect environmental	Ensure adequate ventilation			
exposure		It is based on the implementation of a suitable standard for			
		occupational hygiene.			
Risk management measures					
Conditions and measures in relation	on to personal protection,	It is based on the implementation of a suitable standard for			
hygiene and health examinations		occupational hygiene.			
		Wear protective gloves/protective clothing and safety			
		glasses/face shield.			
		Use appropriate respiratory protection, an effective dust mask			
		In case of insufficient ventilation, use suitable breathing			
		equipment, (Dust/Mist)			
		In high concentrations: Use independent			
		breathing apparatus			
		For further specifications see section 8 of the safety data sheet.			
.2 Sub-scenario controlling environmental exposure (ERC1, ERC6b)					
Manufacture or formulation in the chemical industry in closed batch processes with occasionally controlled exposure or in processes with equivalent control					
conditions. Mixing or mixing in bate	ch production processes. Tra	ansport of the substance or preparation (filling/discharging) in non-spec	cialized facilities. Transport of the		
substance or mixture (filling/discha	arging) in specialized facilitie	s			
Polymer preparations and compou	Inds				
ERC1	Fabric production				
ERC6D	Use of reactive auxiliaries i	in industrial equipment (without incorporation into the object or its surfa	ce)		
Product features					
There is no additional information					
Operating conditions					
Quantity used		Amount used 200 t/vear			
		Deried of Lee/Delegee, 200 deve/veer			
Frequency and duration of use		Chara of loophate in wastewater from with several way 0.05 hours	agional information		
Other operating conditions related	to environmental	Share of leachate in wastewater from widespread use: 0.35 kg/day i	regional information		
exposure		Share of leachate in weathwater from wideeprood use: 2.19 kg/s	by Europo		
		Share of release into the six from widespread use. S. 18 kg/c			
		regionally):			
Risk management measures					
Conditions and measures related to t	he sewage treatment plant	Municipal wastewater treatment plant All	It applies		
		polluted wastewater must be treated in an industrial or			
		municipal treatment plant, which can perform both initial			
		treatment and subsequent treatment.			

3. Expo	3. Exposure estimate and reference to its source				
3.1.	Health				
Informat	ion for supporting exposure scena	rio			
2.1 No d	ata available				
3.2.	Environment				
Informat	ion for supporting exposure scena	rio			
2.2 No d	2.2 No data available				
4. Instru	uctions for the downstream us	er to assess whether he is working within the limits set by the exposure scenario			
4.1.	4.1. Health				
Instructio	structions - health No data available				
4.2.	4.2. Environment				
Instruction	nstructions - environment The expected exposure will not exceed the PNEC-value if the risk management measures/operating conditions in paragraph 2 are followed.				

 Exposure scena 	ario	09
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Drilling method and production method in oil fields ES Ref. no: 09 EC type: Worker				
Usage descriptors		PROC3, PROC4, PROC5, PROC8a, PROC8b PC20, PC40		
		a, SU2b		
		C8d		
Processes covered by the activitie	es associated with the Chemic	cals for Mining tasks		
	Auxi	iliary substances such as buffers, flocculating agents, precipitants, neu	utralizing agents, extraction agents	
	Use	in industrial facilities (IS)		
Evaluation method	see	section 3 in this exposure scenario		
2. Operating conditions and	d risk management mea	asures		
2.1 Sub-scenario control	ling worker exposure (PRO	C3, PROC4, PROC5, PROC8a, PROC8b)		
Transport of the substance or pre	paration (filling/discharging) in	n non-specialized facilities. Transport of the substance or mixture (filling	g/discharging)	
in specialized facilities. Manufactu	ire or formulation in the chemi	ical industry in closed batch processes with occasionally controlled exp	posure or in processes with	
equivalent control conditions. Che	mical production with potentia	al exposure. Mixing or mixing in batch production processes		
Auxiliary substances such as buffe	ers, flocculants, precipitants, r	neutralizing agents. extraction means		
PROC3	Manufacture or formulation i	in the chemical industry in closed batch processes with occasionally co	ontrolled exposure or in	
	processes with equivalent of	ontrol conditions		
PROC4	Chemical production with po	otential exposure.		
PROC5	Mixing or mixing in batch pro	oduction processes		
PROC8a	Transport of the substance	or preparation (filling/discharging) in non-specialized facilities		
PROC8b	Transport of the substance	or mixture (filling/discharging) in specialized facilities		
Product features				
Physical form		Liquid, aqueous solution		
Concentration of the substance in the mixture/article		It refers to the percentage of the substance in the product up to 100% (unless stated otherwise)		
Operating conditions				
Other given operating conditions t exposure	hat affect environmental	It is based on the implementation of a suitable standard for occupational hygiene.		
Risk management measures				
Conditions and measures in relating hygiene and health tests	on to personal protection,	It is based on the implementation of a suitable standard for occupational hygiene.		
		Wear protective gloves/protective clothing and safety glasses/face shield.		
		Use appropriate respiratory protection, an effective dust mask		
		Use in case of insufficient ventilation		
		suitable breathing apparatus, (Dust/Mist).		
		In high concentrations: Use independent		
		breathing apparatus		
		For further specifications see section 8 of the safety data sheet.		
2.2 Sub-scenario control	ing environmental exposure	e (ERC8d)		
Transport of the substance or pre	paration (filling/discharging) in	n non-specialized facilities. Transport of the substance or mixture (filling	g/discharging)	
in specialized facilities. Manufactu	ire or formulation in the chemi	ical industry in closed batch processes with occasionally controlled exp	posure or in processes with	
equivalent control conditions. Che	mical production with potentia	al exposure. Mixing or mixing in batch production processes		
Auxiliary substances such as buff	ers, flocculants, precipitants, r	neutralizing agents. extraction agents		
ERC8d	Wide use of non-reactive ex	cipient (without incorporation into the object or its surface, in outdoor a	areas)	
Product features				

There is no additional information

Operating conditions

Amount used	Quantity used	1000 t/year
Frequency and duration of use	Period of Use/Release.	365 days/year
Other operating conditions related to environmental exposure	Share of leachate in wastewater from widespread use: 274 kg/day R	egional information
	Share of leachate in wastewater from widespread use: 2470 kg/c	lay Europe
Risk management measures		
Risk management measures Conditions and measures related to the sewage treatment plant	Municipal wastewater treatment plant All	It applies
Risk management measures Conditions and measures related to the sewage treatment plant	Municipal wastewater treatment plant All polluted wastewater must be treated in an industrial or	It applies
Risk management measures Conditions and measures related to the sewage treatment plant	Municipal wastewater treatment plant All polluted wastewater must be treated in an industrial or municipal treatment plant, which can perform both initial	It applies

. Exposure estimate and reference to its source					
3.1. Health	. Health				
Information for supporting exposure scer	ario				
2.1 No data available					
3.2. Environment					
Information for supporting exposure scen	ario				
2.2 No data available					
4. Instructions for the downstream us	er to assess whether he is working within the limits set by the exposure scenario				
4.1. Health					
Instructions - health	No data available				
4.2. Environment					
Instructions - environment	The expected exposure will not exceed the PNEC-value if the risk management measures/operating conditions in paragraph 2 are followed.				

1. Exposure scenario 10

EC type: Worker				
Usage descriptors PROC8a		8a, PROC8b, PROC10, PROC13, PROC22 PC20, PC23, PC34		
AC5, AC		C6		
SU5				
ERC4		offers floceulating agents precipitants poutralizing agents propara	tions for	
FIDCESSES COVERED by lask-related	skin tre	eatment		
	Textile	paints, finishing and impregnating agents		
	Produc	tion of textiles, leather, furs		
	Use in	industrial facilities (IS)		
Evaluation method	see se	ction 3 in this exposure scenario		
2. Operating conditions and	d risk management meas	ures		
2.1 Sub-scenario control	ling worker exposure (PROC8	a, PROC8b, PROC10, PROC13, PROC22)		
auxiliary substances such as buffe	ers flocculating agents precipita	ints neutralizing agents skin care products preparations for dvein	finishing and impregnating	
textiles; including bleaching agent	s and other auxiliary substances	s used in the manufacturing process	, mioning and imprograming	
PROC8a	Transport of the substance or	preparation (filling/discharging) in non-specialized facilities		
PROC8b Transport of substance or i	nixture (filling/discharging) in spec	ialized facilities		
PROC10 Application by roller or brus	sh.			
PROC22	I reatment of objects by dippin	g and pouring		
	Froduction and processing of i	ninerals and/or metals at significantly elevated temperatures		
Product features		T		
Physical form	a set estatu	Solid, Aqueous solution		
Concentration of the substance in the mi	xture/article	It refers to the percentage of the substance in the product up to 7	100% (unless stated otherwise)	
		1		
Operating conditions			300	
⊢requency and duration of use		Emission days (days/year):	Period of Lise/Pelease	
Human factors that are not affected	ed by risk management	Body weight: Tidal	70 kg (Default)	
	d by hak management	volume Ensure	10 m ³ /day	
Other given operating conditions t	hat affect environmental	adequate ventilation		
exposure		It is based on the implementation of a suitable standard for		
		occupational hygiene.		
Risk management measures				
Conditions and measures in relation	on to personal protection,	It is based on the implementation of a suitable standard for		
hygiene and health examinations		occupational hygiene.		
		Wear protective gloves/protective clothing and safety		
		glasses/face shield.		
		Ose appropriate respiratory protection, an enective dust mask		
		In case of insufficient ventilation, use suitable breathing		
		equipment, (Dust/Mist).		
		In high concentrations: Use independent		
		breathing apparatus		
		For further specifications see section 8 of the safety data sheet.		
2.2 Sub-scenario controll	ing environmental exposure (ERC4)		
Use of non-reactive auxiliaries in i	ndustrial equipment (without inc	orporation into the object or its surface)		
	Use of non-reactive auxiliary s	ubstances in industrial equipment (without incorporation into the ob	ject or its	
Surrace)	I			
Product features				
Other product features Easily biodegradable				
Operating conditions				
Quantity used		Amount used Time	300 t/year	
Frequency and duration of use		of use/release.	365 days/year	
Other operating conditions related to environmental		Not applicable		
Kisk management measures				
I ecnnical conditions and on-site measures aimed at reducing or		vvasiewater pretreatment	Neutralization must be carried out	
אוויזוגוויש שמסנב מווע בוווססוטווס מוופטוווש נוופ מוו מווט SOI			treatment plant	
		Treatment of waste water	No specific dates	
		All polluted waste water must be treated in an industrial		
		or municipal treatment plant, which can carry out both initial		
		treatment and subsequent treatment.		
Conditions and massures relate 11	the course treatment -1t	Municipal wastowator tractment plant	It applies	
Conditions and measures related to t	me sewaye treatment plant			
Conditions and measures for exte	rnal treatment of	The proportion of the quantity used that will be supplied	No specific dates	
sewage waste		by external waste management		

Conditions and measures related to the external use of waste		al use of waste	Solid waste	May be landfilled or incinerated in accordance with local regulations.
			Retain sludge.	fertilizers
3. Exposu	ire estimate and reference to its sou	irce		
3.1.	Health			
Informati	Information for supporting exposure scenario			
2.1	2.1 ECETOC TRA model used (May 2010 version)			
3.2.	3.2. Environment			
Information for supporting exposure scenario				
2.2	2.2 EUSES			
4. Instructions for the downstream user to assess whether he is working within the limits set by the exposure scenario				
4.1. Health				
Instructions - health No data available				
4.2. Environment				
Instructions - environment The expected exposure will n paragraph 2 are followed.		ure will not exceed the PNEC-value if the risk management measu wed.	res/operating conditions in	

1. Exposure scenario 11a

Use in coating; Colors ES Ref. no: 11a EC type: Worker

Usage descriptors	PROC7, PROC8a, PROC8b, PROC10, PROC11, PROC19, PROC21, PROC24 PC9a, PC9b,	
	PC9c, PC18, PC34	
	AC4, AC11	
	SU17, SU18, SU19	
	ERC5, ERC8c, ERC8f, ERC10a, ERC10b, ERC11a, ERC11b	
Processes covered by the activities associated with the tasks Surface materials and paints, thinners, surface material removers		
	Ink and toners	
	Textile paints, finishing and impregnating agents	
	General manufacturing, eg machinery, equipment, vehicles and other transport equipment	
	Furniture manufacturing	
	Construction and construction work	
	Use in industrial facilities (IS)	
Evaluation method	see section 3 in this exposure scenario	
2. Operating conditions and risk management measures		

2.1 Subscenario controlling worker exposure (PROC7, PROC8a, PROC8b, PROC10, PROC11, PROC19, PROC21, PROC24)

Spraying techniques in industrial facilities. Transport of the substance or preparation (filling/discharging) in non-specialized facilities. Transport of the substance or mixture (filling/discharging) in specialized facilities. Application by roller or brush.

Non-industrial spraying techniques. Manual activities involving hand contact. Low-energy processing of substances bound in materials and/or objects and handling of these substances. Processing of substances bound in materials and/or objects using large (mechanical) energy

Surface materials and paints, thinners, removers of surface materials. Textile paints, finishing and impregnating agents. Ink and toners

PROC7	Spraying techniques in industrial facilities.
PROC8a	Transport of the substance or preparation (filling/discharging) in non-specialized facilities
PROC8b	Transport of the substance or mixture (filling/discharging) in specialized facilities
PROC10	Application by roller or brush.
PROC11	Non-industrial spraving techniques.
PROC19	Manual activities involving hand contact
PROC21	Low-energy processing of substances bound in materials and/or objects and handling of these substances
PROC24	Processing of substances bound in materials and/or objects using large (mechanical) energy

Processing of substances bound in materials and/or objects using large (mechanical) energy Product features

Physical form	Liquid, aqueous solution
Concentration of the substance in the mixture/article	It refers to the percentage of the substance in the product up to 100% (unless stated otherwise)

Operating conditions		
Other given operating conditions that affect environmental	Ensure adequate ventilation	
exposure	It is based on the implementation of a suitable standard for	
	occupational hygiene.	

Risk management measures		
Conditions and measures in relation to personal protection, hygiene and health examinations	It is based on the implementation of a suitable standard for occupational hygiene.	
	Wear protective gloves/protective clothing and safety glasses/face shield.	
	Use appropriate respiratory protection, an effective dust mask	
	In case of insufficient ventilation, use suitable breathing equipment, (Dust/Mist) In high concentrations: Use independent breathing apparatus	
	For further specifications see section 8 of the safety data sheet.	

2.2

Sub-scenario controlling environmental exposure (ERC5, ERC8c, ERC8f, ERC10a, ERC10b, ERC11a, ERC11b)

Manufacture or formulation in the chemical industry in closed batch processes with occasionally controlled exposure or in processes with equivalent control conditions. Mixing or mixing in batch production processes. Transport of the substance or preparation (filling/discharging) in non-specialized facilities. Transport of the substance or mixture (filling/discharging) in specialized facilities

polymer preparations and compou	Inds
ERC5	Use in industrial equipment that leads to incorporation into the object / its surface
ERC8c	Wide use that leads to incorporation into the object / its surface (in interior spaces)
ERC8f	Wide use that leads to incorporation into the object / its surface (outdoors)
ERC10a	Wide use of articles with a low release value (outdoors)
ERC10b	Widespread use of articles with a high release value or intentional release (outdoors)
ERC11a	Wide use of articles with a low release value (indoors)
ERC11b	Widespread use of articles with a high release value or intentional release (indoors)

Product features

There is no additional information

Operating conditions			
Amount used		Amount used 300 t/year	
Frequency and duration of use		Period of Use/Release. 365 days/year	
Other operating conditions related to environn	nental	Regionally applicable share of EU tonnage: 40 t/year	
exposure		Share of leachate in wastewater from widespread use: 2.2 kg/day Re	gional information
		Share of leachate in wastewater from widespread use: 14.3 kg/day Europe	
Risk management measures			
Conditions and measures related to the sewage tr	eatment plant	Municipal wastewater treatment plant	It applies
		All polluted wastewater must be treated in an industrial or municipal treatment plant, which can perform both initial treatment and subsequent treatment.	
3. Exposure estimate and reference to its source			
3.1. Health			
Information for supporting exposure scenario			
2.1 No data available			
3.2. Environment			
Information for supporting exposure scenario			
2.2 No data available			
4. Instructions for the downstream user to assess whether he is working within the limits set by the exposure scenario			
4.1. Health			
Instructions - health No data available			
4.2. Environment			
Instructions - environment The expected exposure will not e paragraph 2 are followed.		osure will not exceed the PNEC-value if the risk management meas llowed.	sures/operating conditions in

1. Exposure scenario 11b

Use in coating; Colors ES Ref. no: 11b EC type: Worker

Eo typo. Weiner	
Usage descriptors	PROC7, PROC8a, PROC8b, PROC10, PROC11, PROC19, PROC21, PROC24 PC9a, PC9b,
	PC18, PC34
	AC4, AC11
	SU17, SU18, SU19
	ERC5, ERC8c, ERC8f, ERC10a, ERC10b, ERC11a, ERC11b
Processes covered by the activities associated with the tasks Surface materials and paints, thinners, surface material removers	
	Ink and toners
	Textile paints, finishing and impregnating agents
	General manufacturing, eg machinery, equipment, vehicles and other transport equipment
	Furniture manufacturing
	Construction and construction work
	Formulation [mixing] of preparations and/or their repackaging (except alloys)
	Widely used by professional workers (PW)
Evaluation method	see section 3 in this exposure scenario
2. Operating conditions and risk management measures	

Sub-scenario controlling worker exposure (PROC7, PROC8a, PROC8b, PROC10, PROC11, PROC19, PROC21, 2.1 PROC24)

Spraying techniques in industrial facilities. Transport of the substance or preparation (filling/discharging) in non-specialized facilities. Transport of the substance or mixture (filling/discharging) in specialized facilities. Application by roller or brush.

Non-industrial spraying techniques. Manual activities involving hand contact. Low-energy processing of substances bound in materials and/or objects and handling of these substances. Processing of substances bound in materials and/or objects using large (mechanical) energy

Surface materials and paints, thinners, removers of surface materials. Textile paints, finishing and impregnating agents.

PROC7	Spraying techniques in industrial facilities.	
PROC8a	Transport of the substance or p	reparation (filling/discharging) in non-specialized facilities
PROC8b	Transport of the substance or m	nixture (filling/discharging) in specialized facilities
PROC10	Application by roller or brush.	
PROC11	Non-industrial spraving techniques.	
PROC19	Manual activities involving hand contact	
PROC21	Low-energy processing of substances bound in materials and/or objects and handling of these substances	
PROC24 Processing of substances bound		d in materials and/or objects using large (mechanical) energy
Product features		
Physical form		Liquid. coarse-grained solid
Concentration of the substance in the minture (article		It refers to the percentage of the substance in the product up to 100% (upless stated otherwise)

Concentration of the substance in the mixture/article	It refers to the percentage of the substance in the product up to 100% (unless stated otherwise)
Operating conditions	

Other given operating conditions that affect environmental	Liquids	Checking the pH value.				
exposure	Coarse-grained solid	The product does not create				
		any dust during application.				
Risk management measures						
Technical conditions and measures at the process level k	Not applicable					

ļ	Technical conditions and measures at the process level k	Not applicable	
ļ	release prevention		
I	Conditions and measures in relation to personal protection,	For further specifications see section 8 of the safety data sheet.	
ļ	hygiene and health examinations		
,			

^{1.2} Sub-scenario controlling environmental exposure (ERC5, ERC8c, ERC8f, ERC10a, ERC10b, ERC11a, ERC11b)

Manufacture or formulation in the chemical industry in closed batch processes with occasionally controlled exposure or in processes with equivalent control conditions. Mixing or mixing in batch production processes. Transport of the substance or preparation (filling/discharging) in non-specialized facilities. Transport of the substance or mixture (filling/discharging) in specialized facilities

Polymer preparations and compou	unds
ERC5	Use in industrial equipment that leads to incorporation into the object / its surface
ERC8c	Wide use that leads to incorporation into the object / its surface (in interior spaces)
ERC8f	Wide use that leads to incorporation into the object / its surface (outdoors)
ERC10a	Wide use of articles with a low release value (outdoors)
ERC10b	Widespread use of articles with a high release value or intentional release (outdoors)
ERC11a	Wide use of articles with a low release value (indoors)
ERC11b	Widespread use of articles with a high release value or intentional release (indoors)

Product features

There is no additional information

Operating conditions				
Amount used		Amount used Time	300 t/year	
Frequency and duration of use		of use/release.	365 days/year	
Other operating conditions related to environm	nental	Not applicable		
exposure				
Risk management measures				
Conditions and measures related to the sewage tre	atment plant	Municipal wastewater treatment plant	Not applicable	
3. Exposure estimate and reference to its so	ource			
3.1. Health				
Information for supporting exposure scenario				
2.1 No data availa	able			
3.2. Environment				
Information for supporting exposure scenario				
2.2 No data available				
4. Instructions for the downstream user to a	ssess whether he	is working within the limits set by the exposure scenario		
k.1. Health				
Instructions - health	Instructions - health No data available			
4.2. Environment				
Instructions - environment The expected exposure will not exceed the PNEC-value if the risk management measures/operating conditions in paragraph 2 are followed				

1. Exposure scenario 11c

Use in coating; Colors ES Ref. no: 11c EC type: Appliance

	LO typ	be. Appliance			
Usage descriptors		PC9a, SU17,	PC9a, PC18, PC34 AC4, AC11 SU17, SU18, SU19, SU21		
		ERC8	c, ERC8f, ERC10a, ERC10b, ERC11a, ERC11b		
Processes covered by task activities Formulation [mixing] of Gen Furni Con		lation [mixing] of pi Genera Furnitur Constr] of preparations and/or their repackaging (except alloys) Seneral manufacturing, eg machinery, equipment, vehicles and other transport equipment urniture manufacturing Construction and construction work		
Freeboord's standard		Consu	insumer Use (C)		
Evaluation method		see se	ction 3 in this exposure scenario		
2. Operating conditions and ri	sk manage	ement measures	,		
2.1 Sub-scenario contro	lling consu	ımer exposure (P	C9a, PC18, PC34)		
Surface materials and paints, thi bleaching agents and other auxi	nners, surfa liary substar	ace material remov	ers, ink and toners, preparations for dyeing, finishing and impre anufacturing process	gnating textiles; including	
PC9a surface materials and paints, t	hinners, surfa	ace material remover	S		
PC18	ink and tor	ners			
PC34	Preparatio	ns for dyeing, finis acturing process	hing and impregnating textiles; including bleaching agents and	other auxiliary substances used in	
Product features					
Physical form			Coarse-grained solid liquid		
Concentration of the substance in the mix	kture/article		It refers to the percentage of the substance in the product up otherwise)	to 100% (unless stated	
Operating conditions					
	alate 1.1				
Additional operating conditions r	elated to ex	posure Use Indooi	and outdoor use.		
				Checking the pH value.	
			Coarse-grained solid	The product does not create	
				any dust during application.	
Risk management measures					
Conditions and measures related and handling instructions	d to consum	ner information	Not applicable		
2.2 Sub-scenario contro	lling envirg	nmental exposur	e (ERC8c ERC8f ERC10a ERC10b ERC11a ERC11b)		
				and the state of the state of the state	
Surface materials and paints, thi	nners, surfa	ace material remov	ers, link and toners, preparations for dyeing, finishing and impre	gnating textiles; including	
		ices used in the m			
ERC8far		nat leads to incorp	foration into the object / its surface (in interior spaces)		
ERC102	ation into an o	<u>object / its surface (ot</u>			
ERC10b	vvide use o	of articles with a lo	w release value (outdoors)		
ERCTOB	vvidesprea	id use of articles w	ith a high release value or intentional release (outdoors)		
FRC11a	Wido ugo (of orticlos with a lo	w rologge volue (indeere)		
FRC11b	Widosproa	d uso of articlos w	ith a high release value or intentional release (indeers)		
	widespiea	iu use of afficies w	in a high release value of intertitonal release (induots)		
Draduct factures					
There is no additional informatio	n				
Operating conditions					
Amount used			Annual habitat tonnage (tons/year):	300	
Frequency and duration of use			Period of use/release.	365 days/year	
Environmental factors unaffected	by risk mana	agement	Release to wastewater during processing	1%	
	•			(300 tons/year)	
			Locally	0.82 kg/day	
			Release to wastewater during processing		
Risk management measures					
Thore is no additional information	n				
2 Exposure estimate and mo	II ronge to it				
5. Exposure estimate and refe	rence to It	s source			
3.1. Health					
Information for supporting expos	sure scenari	0			
2.1 No data available					
3.2. Environment					
	Information for supporting exposure scenario				
4. Instructions for the downst	ream user	to assess wheth	er he is working within the limits set by the exposure so	cenario	
4.1. Health					
Instructions - health		No data available			
4.2. Environment					
	I				
Instructions - environment The expected e in paragraph 2		The expected exp in paragraph 2 are	exposure will not exceed the PNEC-value if the risk management measures/operating conditions are followed.		

1. Exposure scenario 12a

ES photographic	activities	Ref.	no:	12a	

2.5			
Usage descriptors		20C5, PROC9, PROC13 PC30 120 2C8a	
Processes covered by activities associated with the tasks		he Health Service of photochemical substances	
Evaluation method	Wi	dely used by professional workers (PW)	
2. Operating conditions and r	risk management measu		
2.1 Sub-scenario contro	lling worker exposure (PRO	JC5, PROC9, PROC13)	
Mixing or mixing in batch product by dipping and pouring	ion processes. Transport of s	substance or mixture into small containers (closed filling line, including	weighing). Treatment of objects
Photochemical substances			
PROC9	Transport of substance or	propagation processes	sing)
PROC13	Treatment of objects by di	preparation in small containers (specialized milling line, including weigh	ing)
Broduct footuroo			
Product reatures			
Physical form		Liquid, coarse-grained solid	
Concentration of the substance in the m	ixture/article	Contains a proportion of the substance in the product up to 1%, unless of	therwise stated
Operating conditions			
Other given operating conditions	that affect environmental	Liquids	Checking the pH value.
exposure		Coarse-grained solid	The product does not create
Risk management measures		4	any duot during approation.
Technical conditions and measur	es at the process level k	Not applicable	
release prevention			
Conditions and measures in relat	ion to personal protection,	For further specifications see section 8 of the safety data sheet.	
nygiene and health examinations	•		
2.2 Sub-scenario control	lling environmental exposu	ire (ERC8a)	
Mixing or mixing in batch production processes. Transport of substance or mixture into small containers (closed filling line, including weighing). Treatment of objects by dipping and pouring Photochemical substances ERC8a Wide use of non-reactive excipient (without incorporation into the object or its surface, indoors)			
Photochemical substances ERC8a	Wide use of non-reactive e	excipient (without incorporation into the object or its surface, indoors)	
Photochemical substances ERC8a	Wide use of non-reactive e	excipient (without incorporation into the object or its surface, indoors)	
Photochemical substances ERC8a Product features	Wide use of non-reactive e	excipient (without incorporation into the object or its surface, indoors)	
Photochemical substances ERC8a Product features There is no additional information	Wide use of non-reactive e	excipient (without incorporation into the object or its surface, indoors)	
Photochemical substances ERC8a Product features There is no additional information Operating conditions	Wide use of non-reactive e	excipient (without incorporation into the object or its surface, indoors)	
Photochemical substances ERC8a Product features There is no additional information Operating conditions Quantity used	Wide use of non-reactive e	excipient (without incorporation into the object or its surface, indoors)	200 t/year
Photochemical substances ERC8a Product features There is no additional information Operating conditions Quantity used Other operating conditions relate exposure	Wide use of non-reactive e	excipient (without incorporation into the object or its surface, indoors)	200 t/year
Photochemical substances ERC8a Product features There is no additional information Operating conditions Quantity used Other operating conditions relate exposure Bisk management measures	Wide use of non-reactive e	excipient (without incorporation into the object or its surface, indoors) Quantity used Not applicable	200 t/year
Photochemical substances ERC8a Product features There is no additional information Operating conditions Quantity used Other operating conditions relate exposure Risk management measures Conditions and measures related to	Wide use of non-reactive e	excipient (without incorporation into the object or its surface, indoors) Quantity used Not applicable Municipal wastewater treatment plant	200 t/year
Photochemical substances ERC8a Product features There is no additional information Operating conditions Quantity used Other operating conditions relate exposure Risk management measures Conditions and measures related to	Wide use of non-reactive e n d to environmental the sewage treatment plant	excipient (without incorporation into the object or its surface, indoors) Quantity used Not applicable Municipal wastewater treatment plant	200 t/year Not applicable
Photochemical substances ERC8a Product features There is no additional information Operating conditions Quantity used Other operating conditions relate exposure Risk management measures Conditions and measures related to 3. Exposure estimate and refe 3.1. Health	Wide use of non-reactive e	excipient (without incorporation into the object or its surface, indoors) Quantity used Not applicable Municipal wastewater treatment plant	200 t/year Not applicable
Photochemical substances ERC8a Product features There is no additional information Operating conditions Quantity used Other operating conditions relate exposure Risk management measures Conditions and measures related to 3. Exposure estimate and refe 3.1. Health Information for supporting exposed	Wide use of non-reactive e N d to environmental the sewage treatment plant erence to its source ure scenario	excipient (without incorporation into the object or its surface, indoors) Quantity used Not applicable Municipal wastewater treatment plant	200 t/year Not applicable
Photochemical substances ERC8a Product features There is no additional information Operating conditions Quantity used Other operating conditions relate exposure Risk management measures Conditions and measures related to 3. Exposure estimate and refe 3.1. Health Information for supporting expose 2.1	Wide use of non-reactive e Multiple of the sewage treatment plant erence to its source ure scenario No data available	excipient (without incorporation into the object or its surface, indoors) Quantity used Not applicable Municipal wastewater treatment plant	200 t/year Not applicable
Photochemical substances ERC8a Product features There is no additional information Operating conditions Quantity used Other operating conditions relate exposure Risk management measures Conditions and measures related to 3. Exposure estimate and refe 3.1. Health Information for supporting exposs 2.1	Wide use of non-reactive e	excipient (without incorporation into the object or its surface, indoors) Quantity used Not applicable Municipal wastewater treatment plant	200 t/year Not applicable
Photochemical substances ERC8a Product features There is no additional information Operating conditions Quantity used Other operating conditions relate exposure Risk management measures Conditions and measures related to 3. Exposure estimate and refe 3.1. Health Information for supporting expose 2.1 3.2. Environment	Wide use of non-reactive e	excipient (without incorporation into the object or its surface, indoors) Quantity used Not applicable Municipal wastewater treatment plant	200 t/year
Photochemical substances ERC8a Product features There is no additional information Operating conditions Quantity used Other operating conditions relate exposure Risk management measures Conditions and measures related to 3. Exposure estimate and refe 3.1. Health Information for supporting exposi 2.1 3.2. Environment Information for supporting exposi 2.2	Wide use of non-reactive e Multiple of the sewage treatment plant erence to its source ure scenario No data available ure scenario No data available	excipient (without incorporation into the object or its surface, indoors) Quantity used Not applicable Municipal wastewater treatment plant	200 t/year
Photochemical substances ERC8a Product features There is no additional information Operating conditions Quantity used Other operating conditions relate exposure Risk management measures Conditions and measures related to 3. Exposure estimate and refe 3.1. Health Information for supporting expose 2.1 3.2. Environment Information for supporting expose 2.2	Wide use of non-reactive e	excipient (without incorporation into the object or its surface, indoors) Quantity used Not applicable Municipal wastewater treatment plant the is working within the limits set by the exposure scenario	200 t/year Not applicable
Photochemical substances ERC8a Product features There is no additional information Operating conditions Quantity used Other operating conditions relate exposure Risk management measures Conditions and measures related to 3. Exposure estimate and refe 3.1. Health Information for supporting exposs 2.1 3.2. Environment Information for supporting exposs 2.2 4. Instructions to the downstit 4.1. Health Information for supporting expose	Wide use of non-reactive e	excipient (without incorporation into the object or its surface, indoors) Quantity used Not applicable Municipal wastewater treatment plant the is working within the limits set by the exposure scenario	200 t/year Not applicable
Photochemical substances ERC8a Product features There is no additional information Operating conditions Quantity used Other operating conditions relate exposure Risk management measures Conditions and measures related to 3. Exposure estimate and ref 3.1. Health Information for supporting exposs 2.1 3.2. Environment Information for supporting exposs 2.2 4. Instructions to the downstit 4.1. Health Instructions - health	Wide use of non-reactive e	excipient (without incorporation into the object or its surface, indoors) Quantity used Not applicable Municipal wastewater treatment plant the is working within the limits set by the exposure scenario ble	200 t/year Not applicable
Photochemical substances ERC8a Product features There is no additional information Operating conditions Quantity used Other operating conditions relate exposure Risk management measures Conditions and measures Conditions and measures related to 3. Exposure estimate and refe 3.1. Health Information for supporting exposit 2.1 3.2. Environment Information for supporting exposit 2.2 4. Instructions to the downstit 4.1. Health Instructions - health 4.2. Environment	Wide use of non-reactive e	excipient (without incorporation into the object or its surface, indoors) Quantity used Not applicable Municipal wastewater treatment plant the is working within the limits set by the exposure scenario ble	200 t/year Not applicable

1. Exposure scenario 12b

Į

ES	photographic	activities	Ref. no:	12b
20	photographic	activities	110.	120

	EC type: Consumer				
Usage descriptors PC		PC30 SU20 E	RC8a		
Processes covered by the activities associated with the tasks of the photochemical substance Health services					
			Consum	ner Use (C)	
Evaluatio	on method		see sec	tion 3 in this exposure scenario	
2. Opera	ting conditions and risk	manage	ement measures		
2.1	Sub-scenario controlling	consum	er exposure (PC30)		
PC30	pł	hotochem	ical substances		
Product	features				
Physica	l form			Coarse-grained solid, liquid	
Concentra	ation of the substance in the mixture	re/article		It refers to the percentage of the substance in the product up to	100% (unless stated otherwise)
Operatio	ng conditions				
Addition	al operational conditions relat	ated to ex	posure Use Indoor u	se.	
	•			Liquids	Checking the pH value.
				Coarse-grained solid	The product does not create
					any dust during application.
Risk man	agement measures			-	
Condition and han	ons and measures related to o Idling instructions	consume	rinformation	Not applicable	
2.2	Sub-scenario controlling	environ	nental exposure (E	RC8a)	
Photoch	Photochemical substances				
ERC8a	W	Vide use o	of non-reactive excip	ient (without incorporation into the object or its surface, indoors)	
Product	features				
There is	no additional information				
Operati	ng conditions				
Quantity	y used			Annual site tonnage (tons/year):	200
Risk man	agement measures				
There is	no additional information				
R Expos	ure estimate and referen	nce to it	s source		
я <u>Е</u> дрос 3.1.	Health		0000100		
Informa	tion for our orting our course				
2.1 No (tata available	SCENARIO			
3.2.	i.2. Environment				
Informa	Information for supporting exposure scenario				
2.2	EUS	SES			
4. Instru	ctions for the downstrea	m user	to assess whethe	er he is working within the limits set by the exposure so	enario
4.1.	Health				
Instructi	ons - health		No data available		
4.2.	Environment				
Instruct	ions - environment		The expected expo	ssure will not exceed the PNEC-value if the risk management meas	sures/operating conditions in
			paragraph 2 are fol	llowed.	

1. Exposure scenario 13

Use as a laboratory reagent ES Ref. no: 13 EC type: Worker

- 31 -				
Usage descriptors	PROC1, PROC2, PROC4, PROC8a PC4, PC16, PC20, PC37			
	SU3			
	ERC4, ERC7, ERC8f			
Processes covered by the activities associated with the tasks Antifreeze and antifreeze products				
	Heat conducting liquids			
	Auxiliary substances such as buffers, flocculating agents, precipitants, neutralizing agents			
	Preparations for water treatment			
	Use in industrial facilities (IS)			
Evaluation method	see section 3 in this exposure scenario			
. Operating conditions and risk management measures				

2.1 Sub-scenario controlling worker exposure (PROC1, PROC2, PROC4, PROC8a)

Chemical production or refining in a closed process with no likelihood of exposure or in processes with equivalent control conditions. Chemical production or refining in a continuous closed process with occasionally controlled exposure or in processes with equivalent control conditions. Chemical production with potential exposure. Transport of the substance or preparation (filling/discharging) in non-specialized facilities

Antifreeze mixtures and deicing products. Heat conducting liquids. Auxiliary substances such as buffers, flocculants, precipitants, neutralizing agents. Preparations for water treatment

PROC1	Chemical production or refining in a closed process with no likelihood of exposure or in processes with equivalent control
	conditions
PROC2	Chemical production or refining in a continuous closed process with occasionally controlled exposure or in processes with equivalent
	control conditions
PROC4	Chemical production with potential exposure.
PROC8a	Transport of the substance or preparation (filling/discharging) in non-specialized facilities

Product features

Physical form	Liquid, aqueous solution			
Concentration of the substance in the mixture/article	Contains a proportion of the substance in the product up to 1%, unless otherwise stated			
Operating conditions				
Other given operating conditions that affect environmental	Ensure adequate ventilation			
exposure	It is based on the implementation of a suitable standard for			
	occupational hygiene.			
Risk management measures				

Conditions and measures in relation to personal protection,	It is based on the implementation of a suitable standard for	
hygiene and health examinations	occupational hygiene.	
	Wear protective gloves/protective clothing and safety	
	glasses/face shield.	
	Use appropriate respiratory protection, an effective dust mask	
	In case of insufficient ventilation, use suitable breathing equipment, (Dust/Mist) In high concentrations: Use self-contained breathing apparatus.	
	For further specifications see section 8 of the safety data sheet.	

2.2 Sub-scenario controlling environmental exposure (ERC4, ERC7, ERC8f)

Chemical production or refining in a closed process with no likelihood of exposure or in processes with equivalent control conditions. Chemical production or refining in a continuous closed process with occasionally controlled exposure or in processes with equivalent control conditions. Chemical production with potential exposure. Transport of the substance or preparation (filling/discharging) in non-specialized facilities

Antifreeze mixtures and deicing products. Heat conducting liquids. Auxiliary substances such as buffers, flocculants, precipitants, neutralizing agents. Preparations for water treatment

ERC4	Use of non-reactive auxiliaries in industrial equipment (without incorporation into the object or its surface)
ERC7	Use of functional fluids in industrial equipment
ERC8f	Wide use that leads to incorporation into the object / its surface (outdoors)

Product features

There is no additional information

Quantity used	Quantity used	1000 t/year	
Other operating conditions related to environmental	Not applicable		
exposure			
Risk management measures			
Conditions and measures related to the sewage treatment plant	Municipal wastewater treatment plant All	It applies	
Conditions and measures related to the sewage treatment plant	Municipal wastewater treatment plant All polluted wastewater must be treated in an industrial or	It applies	
Conditions and measures related to the sewage treatment plant	Municipal wastewater treatment plant All polluted wastewater must be treated in an industrial or municipal treatment plant, which can perform both initial	It applies	
Conditions and measures related to the sewage treatment plant	Municipal wastewater treatment plant All polluted wastewater must be treated in an industrial or municipal treatment plant, which can perform both initial treatment and subsequent treatment.	It applies	

3. Exposure	e estimate and refe	erence to its source
3.1. H	lealth	
Information	n for supporting expo	sure scenario
2.1 No data	a available	
3.2. е	Environment	
Information	n for supporting expo	sure scenario
2.2 No data	a available	
4. Instructio	ons for the downst	tream user to assess whether he is working within the limits set by the exposure scenario
4.1. H	lealth	
Instructions	- health	No data available
4.2. E	Environment	
Instructions	s - environment	The expected exposure will not exceed the PNEC-value if the risk management measures/operating conditions in paragraph 2 are followed.

1. Exposure scenario 14

Preparations for water treatment ES Ref. no: 14 EC type: Worker

20 ()poi fromoi	
Usage descriptors	PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10,
	PROC13, PROC17, PROC20, PROC23
	PC4, PC7, PC14, PC16, PC17, PC20, PC25, PC31, PC35, PC37
	SU14, SU15, SU16, SU17
	ERC4, ERC6b, ERC7
Processes covered by activities associated with tasks Pro	duction of base metals including alloys
	Manufacture of machined metal products, except machinery and equipment
	Production of computer, electronic and optical products, electrical equipment
	General manufacturing, e.g. machinery, equipment, vehicles and other transport equipment
	Antifreezes and antifreeze products
	Base metals and alloys
	Preparations for surface treatment of metals
	Heat conducting liquids
	Hydraulic fluids
	Auxiliary substances such as buffers, flocculating agents, precipitants, neutralizing agents
	Fluids for metalworking
	Polishes and wax compounds
	Washing and cleaning products (including solvent-based products)
	Preparations for water treatment
	Use in industrial facilities (IS)
Evaluation method	see section 3 in this exposure scenario

2. Operating conditions and risk management measures

2.1 Subscenario controlling worker exposure (PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18, PROC20, PROC23)

Chemical production or refining in a closed process with no likelihood of exposure or in processes with equivalent control conditions. Chemical production or refining in a continuous closed process with occasionally controlled exposure or in processes with equivalent control conditions. Manufacture or formulation in the chemical industry in closed batch processes with occasionally controlled exposure or in processes with equivalent control conditions. Chemical production with potential exposure. Spraying techniques in industrial facilities. Transport of the substance or preparation (filling/discharging) in non-specialized facilities. Transport of substance or mixture into small containers (closed filling line, including weighing). Application by roller or brush. Treatment of objects by dipping and pouring. Lubrication during the action of high energies during metalworking processes. General lubrication/lubrication at high kinetic energy. Use of functional fluids in small devices. Open processing and transport at significantly elevated temperatures

Auxiliary substances such as buf	fers, flocculants, precipitants,	neutralizing agents. Preparations for water treatment	
conditions	Chemical production or refining in a closed process with no probability of exposure or PROC1 in processes with equivalent control		
PROC2	Chemical production or refining in a continuous closed process with occasionally controlled exposure or in processes with equivalent		
PROC3	Manufacture or formulation	in the chemical industry in closed batch processes with occasionally c	controlled exposure or in
	processes with equivalent	control conditions	
PROC4	Chemical production with p	potential exposure.	
PROC7	Spraying techniques in ind	ustrial facilities.	
PROC8a	Transport of the substance	or preparation (filling/discharging) in non-specialized facilities	
PROC8b	Transport of the substance	or mixture (filling/discharging) in specialized facilities	
PROC9	Transport of substance or	preparation in small containers (specialized filling line, including weighi	ng)
PROC10	Application by roller or brus	sh.	
PROC13	Treatment of objects by dip	pping and pouring	
PROC17	Lubrication during the actic	on of high energies during metalworking processes	
PROC18	General lubrication/lubricat	tion at high kinetic energy	
PROC20	Use of functional fluids in small devices		
PROC23	Open processing and transport at significantly elevated temperatures		
Product features		-	
Physical form	Physical form Liquid, aqueous solution		
Concentration of the substance in the mixture/article It		It refers to the percentage of the substance in the product up to 100	% (unless stated otherwise)
Operating conditions			
Other given operating conditions	that affect	Ensure adequate ventilation	
environmental exposure		It is based on the implementation of a suitable standard for occupational hygiene.	
Risk management measures			
Conditions and measures in relat	tion to	It is based on the implementation of a suitable standard for	
personal protection, hygiene and	health	occupational hygiene.	
examinations		Wear protective gloves/protective clothing and safety glasses/face shield.	
		Use appropriate respiratory protection, an effective dust mask	
		In case of insufficient ventilation, use suitable breathing equipment, (Dust/Mist) In high concentrations: Use self-contained breathing apparatus.	
		For further specifications see section 8 of the safety data sheet.	

2.2 Sub-scenario controlling environmental exposure (ERC4, ERC6b, ERC7)				
Chemical production or refining in a closed process with no likelihood of exposure or in processes with equivalent control conditions. Chemical production or refining in a continuous closed process with occasionally controlled exposure or in processes with equivalent control conditions. Manufacture or formulation in the chemical industry in closed batch processes with occasionally controlled exposure or in processes with equivalent control conditions. Chemical production with potential exposure. Spraying techniques in industrial facilities. Transport of the substance or preparation (filling/discharging) in non-specialized facilities. Transport of the substance or mixture into small containers (closed filling line, including weighing). Application by roller or brush. Treatment of objects by dipping and pouring. Lubrication during the action of high energies during metalworking processes. General lubrication/lubrication at high kinetic energy. Use of functional fluids in small devices. Open processing and transport at significantly elevated temperatures				
	Use of non-reactive excipients in	and a second s	surface)	
ERC6b	Use of reactive auxiliaries in in	dustrial equipment (without incorporation into the object or its surfa	ace)	
ERC7	Use of functional fluids in indu	strial equipment		
Product features				
There is no additional information				
Operating conditions				
Quantity used		Amount used 1000 t/year		
Other operating conditions related to	environmental	Share of leachate in wastewater from widespread use: 274 kg/day R	egional information	
exposure Share of leach		Share of leachate in wastewater from widespread use: 2470 kg/c	lav Furope	
Risk management measures				
Conditions and measures related to the sewage treatment plant Municipal wastewater treatment plant All				
polluted wastewater must be treated in an i municipal treatment plant, which can perfor		polluted wastewater must be treated in an industrial or municipal treatment plant, which can perform both initial treatment and subsequent treatment		
3. Exposure estimate and reference	to its source			
3.1. Health				
Information for supporting exposure	scenario			
2.1 No data available				
3.2. Environment				
Information for supporting exposure scenario 2.2 No data available				
4. Instructions for the downstream user to assess whether he is working within the limits set by the exposure scenario				
4.1. Health				
Instructions - health No data available				
4.2. Environment				
Instructions - environment	The expected expo	sure will not exceed the PNEC-value if the risk management measure	ures/operating conditions in	
	paragraph 2 are fol	lowed.		

1. Exposure scenario 15

Preparations for surface treatment of metals ES Ref. no: 15

E0	
Usage descriptors	PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18, PROC23
	PC7, PC14, PC25, PC31, PC35
	SU14, SU15, SU16, SU17
	ERC4, ERC6b
Processes covered by activities associated with tasks Pro	duction of base metals including alloys
	Manufacture of machined metal products, except machinery and equipment
	Manufacture of computer, electronic and optical products, electrical equipment General manufacture,
	e.g. machinery, equipment, vehicles and other transport equipment Basic metals and alloys
	Preparations for surface treatment of metals
	Fluids for metalworking
	Polishes and wax compounds
	Washing and cleaning products (including solvent-based products)
	Use in industrial facilities (IS)
Evaluation method	see section 3 in this exposure scenario
2. Operating conditions and risk management	measures

2.1 Subscenario controlling worker exposure (PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18, PROC23)

Manufacture or formulation in the chemical industry in closed batch processes with occasionally controlled exposure or in processes with equivalent control conditions. Chemical production or refining in a continuous closed process with occasionally controlled exposure or in processes with equivalent control conditions. Chemical production with potential exposure. Spraying techniques in industrial facilities. Transport of the substance or mixture (filling/discharging) in specialized facilities. Transport of substance or mixture into small containers (closed filling line, including weighing). Application by roller or brush. Treatment of objects by dipping and pouring. Lubrication during the action of high energies during metalworking processes. General lubrication/lubrication at high kinetic energy. Open processing and transport at significantly elevated temperatures

Base metals and alloys. preparations for surface treatment of metals. Fluids for metalworking. polishes and wax mixtures. Washing and cleaning products (including solvent-based products)

PROC2	Chemical production or refining in a continuous closed process with occasionally controlled exposure or in processes with equivalent control conditions
PROC3	Manufacture or formulation in the chemical industry in closed batch processes with occasionally controlled exposure or in processes with equivalent control conditions
PROC4	Chemical production with potential exposure.
PROC7	Spraving techniques in industrial facilities.
PROC8a	Transport of the substance or preparation (filling/discharging) in non-specialized facilities
PROC8b	Transport of the substance or mixture (filling/discharging) in specialized facilities
PROC9	Transport of substance or preparation in small containers (specialized filling line, including weighing)
PROC10	Application by roller or brush.
PROC13	Treatment of objects by dipping and pouring
PROC17	Lubrication during the action of high energies during metalworking processes
PROC18	General lubrication/lubrication at high kinetic energy
PROC23	Open processing and transport at significantly elevated temperatures

 Product features

 Physical form
 Liquid. aqueous solution

 Concentration of the substance in the mixture/article
 It refers to the percentage of the substance in the product up to 100% (unless stated otherwise)

 Operating conditions
 Operating conditions

· -		
Other given operating conditions that affect environmental	Ensure adequate ventilation	
exposure	It is based on the implementation of a suitable standard for	
	occupational hygiene.	
Risk management measures		
Conditions and measures in relation to personal protection,	It is based on the implementation of a suitable standard for	
hygiene and health examinations	occupational hygiene.	
	Wear protective gloves/protective clothing and safety	
	glasses/face shield.	
	Use appropriate respiratory protection, an effective dust mask	
	Use in case of insufficient ventilation	
	suitable breathing apparatus, (Dust/Mist)	
	In high concentrations: Use independent	
	breathing apparatus	
	For further specifications see section 8 of the safety data sheet.	

2.2 Sub-scenario control	ling environmental exposure	(ERC4, ERC6b)		
Manufacture or formulation in the chemical industry in closed batch processes with occasionally controlled exposure or in processes with equivalent control conditions. Chemical production or refining in a continuous closed process with occasionally controlled exposure or in processes with equivalent control conditions. Chemical production with potential exposure. Spraying techniques in industrial facilities. Transport of the substance or mixture (filling/discharging) in specialized facilities. Transport of the substance or preparation (filling/discharging) in non-specialized facilities. Transport of substance or mixture into small containers (closed filling line, including weighing). Application by roller or brush. Treatment of objects by dipping and pouring. Lubrication during the action of high energies during metalworking processes. General lubrication/lubrication at high kinetic energy. Open processing and transport at significantly elevated temperatures Base metals and alloys. preparations for surface treatment of metals. Fluids for metalworking. polishes and wax mixtures. Washing and cleaning products				
ERC4	Use of non-reactive auxiliaries	in industrial equipment (without incorporation into the object or i	its surface)	
ERC6b	Use of reactive auxiliaries in ir	ndustrial equipment (without incorporation into the object or its su	urface)	
Product features				
There is no additional information	ı			
Operating conditions				
Quantity used		Quantity used	1000 t/year	
Other operating conditions relate exposure	Other operating conditions related to environmental Not applicable exposure			
Risk management measures				
Conditions and measures related to the sewage treatment plant Municipal wastewater treatment plant It applies All polluted wastewater must be treated in an industrial or municipal treatment plant, which can perform both initial treatment and subsequent treatment. It applies		It applies		
3. Exposure estimate and reference to its source				
3.1. Health				
Information for supporting expose 2.1	Information for supporting exposure scenario 2.1 No data available			
3.2. Environment	3.2. Environment			
Information for supporting exposure scenario 2.2 No data available				
4. Instructions for the downstrea	am user to assess whether he	is working within the limits set by the exposure scenario		
4.1. Health				
Instructions - health	Instructions - health No data available			
4.2. Environment				
nstructions - environment The expected exposure will not exceed the PNEC-value if the risk management measures/operating conditions in paragraph 2 are followed.				

1. Exposure scenario 16a

Agriculture EC Ref. no: 16a

EC type: Work	er		
Lisage descriptors PROC		C3. PROC5. PROC8a. PROC8b. PROC10. PROC11. PROC14. PRO	C15, PROC19 PC8,
Picture descriptors		2, PC21	,,
	SU1		
	ERC	2, ERC4, ERC8b, ERC8d	
Processes covered by activities as	ssociated with tasks Agricultur	e, forestry, fishing biocidal products	
	Prepa	arations for the maintenance of lawns and gardens (+ fertilizers)	
Evaluation method	USE	section 3 in this exposure scenario	
2 Operating conditions and	t risk management mea		
2.1 Sub connerie controlling was			
PROC19)	ker exposure (PROC3, PRO	C5, PROC62, PROC60, PROC10, PROC11, PROC14, PROC15,	
Manufacture or formulation in the	chemical industry in closed ba	tch processes with occasionally controlled exposure or in processes w	vith equivalent control
conditions. Mixing or mixing in bat	ch production processes. I rar	Application by roller or brush. Non industrial spraving techniques. Tal	alized facilities. I ransport of the
extrusion, pelletization, granulation	n. Use as a laboratory reagent	t. Manual activities involving hand contact	bleting, compression,
Biocidal products (e.g. disinfectan	ts, pest control). Fertilizers. Pr	reparations for the maintenance of lawns and gardens (+ fertilizers)	
PKUU3	Manufacture or formulation in	n the chemical industry in closed batch processes with occasionally co	ontrolled exposure or in
PROC5	processes with equivalent co	ontrol conditions	
PROC8a	Transport of the substance	Autonom processes	
PROC8b	Transport of the substance of	or mixture (filling/discharging) in specialized facilities	
PROC10	Application by roller or brush		
PROC11	Non-industrial spraving tech	niques.	
PROC14	Tableting, compression, extr	usion, pelletization, granulation	
PROC15	Use as a laboratory reagent		
PROC19	Manual activities involving ha	and contact	
Product features			
Physical form		Liquid, aqueous solution	
Concentration of the substance in the mit	xture/article	It refers to the percentage of the substance in the product up to 10	00% (unless stated otherwise)
Operating conditions			
Other given operating conditions t	hat affect environmental	Ensure adequate ventilation	
exposure		It is based on the implementation of a suitable standard for	
		occupational hygiene.	
Risk management measures			
Conditions and measures in relation	on to personal protection,	It is based on the implementation of a suitable standard for	
hygiene and health examinations		occupational hygiene.	
		Wear protective gloves/protective clothing and safety	
		glasses/lace shield.	
		ase appropriate respiratory protection, an enective dust mask	
		In case of insufficient ventilation, use suitable breathing	
		equipment, (Dust/Mist)	
		In high concentrations: Use self-contained breathing apparatus.	
		For further specifications see section 8 of the safety data sheet.	
2.2 Sub-scenario control	ling environmental exposure	e (ERC2, ERC4, ERC8b, ERC8d)	
Manufacture or formulation in the	chemical industry in closed ba	tch processes with occasionally controlled exposure or in processes w	vith equivalent control
conditions. Mixing or mixing in bat	ch production processes. Trar	nsport of the substance or preparation (filling/discharging) in non-speci	alized facilities. Transport of the
substance or mixture (filling/discharging) in specialized facilities. Application by roller or brush. Non-industrial spraying techniques. Tableting, compression,			
extrusion, perietization, granulation. Use as a laboratory reagent. Manual activities involving hand contact			
Biocidal products (e.g. disinfectan	ts, pest control). Fertilizers. Pi	reparations for the maintenance of lawns and gardens (+ fertilizers)	
ERC2	Formulation into the mixture	¥ ` ` /	
ERC4	Use of non-reactive auxiliarie	es in industrial equipment (without incorporation into the object or its si	urface)
FRC8b			
	vvide use of reactive excipie	in (without incorporation into the object of its surface, indoors)	
ERC8d	Wide use of non-reactive exe	cipient (without incorporation into the object or its surface, in outdoor a	reas)

Product features

There is no additional information

Operating conditions					
Amount used			Amount used Time	1500 t/year	
Frequen	cy and duration of use		of use/release.	365 days/year	
Other op	perating conditions related to enviror	nmental	Share of releases to soil from widespread use (only regionally):	3699 kg/day	
			Share of leachate in wastewater from widespread use: 411 kg/day		
Risk man	agement measures				
Condition	is and measures related to the sewage t	reatment plant	Municipal wastewater treatment plant	It applies	
			All polluted wastewater must be treated in an industrial or municipal treatment plant, which can perform both initial treatment and subsequent treatment.		
3. Exposi	ure estimate and reference to its s	ource			
3.1.	Health				
Informat	Information for supporting exposure scenario				
2.1	2.1 No data available				
3.2.	2. Environment				
Informat	Information for supporting exposure scenario				
2.2	2.2 No data available				
4. Instruc	. Instructions for the downstream user to assess whether he is working within the limits set by the exposure scenario				
4.1.	Health				
Instructio	ons - health	No data available			
4.2.	.2. Environment				
Instructi	Instructions - environment The expected exposure will not exceed the PNEC-value if the risk management measures/operating conditions in paragraph 2 are followed				

1. Exposure scenario 16b

Agriculture EC Ref. no: 16b

EC type: Worke	er				
Usage descriptors PR PC SU		PROC3, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC14, PROC15, PROC19 PC8, PC12, PC21 SU1			
	ERC2,	ERC4, ERC8b, ERC8d			
Processes covered by activities as	sociated with tasks Agriculture, Prepara	forestry, fishing biocidal products ations for the maintenance of lawns and gardens (+ fertilizers)			
	Use in	industrial facilities (IS)			
Evaluation method	see see	ction 3 in this exposure scenario			
2. Operating conditions and	l risk management meas	ures			
2.1 Sub-scenario controlling wor PROC19)	ker exposure (PROC3, PROC5	i, PROC8a, PROC8b, PROC10, PROC11, PROC14, PROC15,			
Manufacture or formulation in the o	chemical industry in closed batcl	n processes with occasionally controlled exposure or in processes	with equivalent control		
conditions. Mixing or mixing in bate	ch production processes. Transp	port of the substance or preparation (filling/discharging) in non-spec	cialized facilities. Transport of the		
substance or mixture (filling/discha	arging) in specialized facilities. A	pplication by roller or brush. Non-industrial spraying techniques. Ta	ableting, compression,		
extrusion, pelletization, granulation	h. Use as a laboratory reagent. N	lanual activities involving hand contact			
Biocidal products (e.g. disinfectant	ts, pest control). Fertilizers. prep	arations for the maintenance of lawns and gardens (+ fertilizers)			
PROC3	Manufacture or formulation in t	he chemical industry in closed batch processes with occasionally c	controlled exposure or in		
	processes with equivalent cont	rol conditions	·		
PROC5	Mixing or mixing in batch produ	uction processes			
PROC8a	Transport of the substance or	preparation (filling/discharging) in non-specialized facilities			
PROC8b	Transport of the substance or	mixture (filling/discharging) in specialized facilities			
PROC10	Application by roller or brush.				
PROC11	Non-industrial spraying technic	jues.			
PROC14	Tableting, compression, extrus	ion, pelletization, granulation			
PROC15	Use as a laboratory reagent				
PROC19	Manual activities involving han	d contact			
Product features		1			
Physical form		Liquid, coarse-grained solid			
Concentration of the substance in the mix	kture/article	It refers to the percentage of the substance in the product up to 7	100% (unless stated otherwise)		
Operating conditions					
Other given operating conditions the	hat affect environmental	Liquids	Checking the pH value.		
exposure		Coarse-grained solid	The product does not create		
			any dust during application.		
Risk management measures					
Technical conditions and measure	s at the process level k	Not applicable	1		
release prevention	F				
Conditions and measures in relation to personal protection,		For further specifications see section 8 of the safety data sheet.			
hygiene and health examinations					
2.2 Sub-scenario controll	ing environmental exposure (I	ERC2, ERC4, ERC8b, ERC8d)			
Manufacture or formulation in the	chemical industry in closed batcl	h processes with occasionally controlled exposure or in processes	with equivalent control		
conditions. Mixing or mixing in bate	ch production processes. Transp	port of the substance or preparation (filling/discharging) in non-spec	vialized facilities. Transport of the		
substance or mixture (filling/discha	arging) in specialized facilities. A	pplication by roller or brush. Non-industrial spraying techniques. Ta	ableting, compression,		
extrusion, pelletization, granulation	n. Use as a laboratory reagent. N	Ianual activities involving hand contact			
ERC2	s, pest control). Fertilizers. Prep	varations for the maintenance of lawns and gardens (+ fertilizers)			
ERC4	Use of non-reactive auxiliaries	in industrial equipment (without incorporation into the object or its	surface)		
FRC8b					
	Wide use of reactive excipient	(without incorporation into the object or its surface, indoors)			
ERC8d Wide use of non-reactive excipient (without incorporation into the object or its surface, in outdoor areas)			areas)		
Product features					
There is no additional information					
Chor operating conditions related	to onvironmente!	Vi use/release.	300 days/year		
exposure	to environmental				
Conditions and measures related to t	he sewage treatment plant	Municipal wastewater treatment plant	Not applicable		

3. Exposi	. Exposure estimate and reference to its source					
3.1.	Health					
Informati	Information for supporting exposure scenario					
2.1 No d	ata available					
3.2.	Environment					
Informati	on for supporting exp	osure scenario				
2.2 No d	ata available					
4. Instruc	. Instructions for the downstream user to assess whether he is working within the limits set by the exposure scenario					
4.1.	Health					
Instructio	ns - health	No data available				
4.2.	Environment					
Instructio	ons - environment	The expected exposure will not exceed the PNEC-value if the risk management measures/operating conditions in paragraph 2 are followed.				

1. Exposure scenario 16c						
Agriculture EC Ref. no: 16c						
EC type: C	onsumer					
Usage descriptors		PC8, PC ERC8b,	PC8, PC12, PC21 SU1 ERC8b, ERC8d			
Processes covered by activities	associated w	ith tasks Agriculture,	forestry, fisheries biocidal products			
		Fertilizer	s			
		Preparat	ions for the maintenance of lawns and gardens (+ ferti	lizers)		
Evolution method		Consum	Consumer Use (C)			
Evaluation method		see sec	see section 3 in this exposure scenario			
2. Operating conditions and	risk manag	ement measures				
2.1 Sub-scenario contro	olling consu	ner exposure (PC8,	PC12, PC21)			
biocidal products (e.g. disinfecta	ints, pest con	trol), fertilizers, lawn a	and garden maintenance products (+ fertilizers)			
PC8	biocidal pr	oducts				
PC12 fertilizers						
FC21 laboratory chemicals						
Product features						
Physical form			Coarse-grained solid, liquid			
Concentration of the substance in the	mixture/article		It refers to the percentage of the substance in th	e product up to 1	100% (unless stated otherwise)	
Operating conditions						
Operating conditions						
Other operating conditions relate	ed to the expo	osure of the use of Lic	uid		Checking the pH value.	
			Coarse-grained solid		I ne product does not create	
Diak managament magauraa					any dust during application.	
	1.					
and handling instructions	a to consume	er information	Not applicable			
2.2 Sub-sconario contre		montal oxposuro (E				
hissidel products (o.g. disinfacts						
ERC8b	Wide use	of reactive excinient (without incorporation into the object or its surface	indoors)		
ERC8d	ERC8d Wide use of non-reactive excipient (without incorporation into the object or its surface, in outdoor areas)				areas)	
Product features	4					
There is no additional information	n					
Operating conditions						
Quantity used			Appual babitat toppage (tops/year):	1	1500	
Frequency and duration of use			Period of use/release.		365 days/year	
Risk management measures						
There is no additional information	'n					
3. Exposure estimate and re	ference to i	ts source				
3.1. Health	3.1. Health					
Information for supporting expos	sure scenario					
2.1 No data available						
3.2. Environment						
Information for supporting exposure scenario						
2.2 EUSES						
4. Instructions for the downstream user to assess whether he is working within the limits set by the exposure scenario						
4.1. Health						
Instructions - health No data available						
4.2. Environment						
Instructions - anvironment The expected exposure will not exceed the DNEC value if the rick management measures/expecting conditions in						
	paragraph 2 are followed.			ures/operating conditions in		

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1. Exposure scenario 17a			
EC medical devices Ref. no: 17a EC type: Worker			
Usage descriptors PROC1 ERC7		PC20 SU20	
Processes covered by activities associated with the tasks	of the H	ealth Service	
- - -	Auxiliary Use in ir	substances such as buffers, flocculating agents, precipitants, r idustrial facilities (IS)	neutralizing agents
Evaluation method s	see sect	ion 3 in this exposure scenario	
2. Operating conditions and risk management meas	sures		
2.1 Sub-scenario controlling worker exposure (F	PROC1)		
Chemical production or refining in a closed process with ne	o likelih	ood of exposure or in processes with equivalent control conditio	ns
Auxiliary substances such as buffers, flocculating agents, PROC1 Chemical production or control conditions	precipita refining	ants, neutralizing agents in a closed process with no likelihood of exposure or in process	ses with equivalent
Product features			
Physical form	1	Liquid aqueous solution	
Concentration of the substance in the mixture/article		It refers to the percentage of the substance in the product up to 100% (unless stated otherwise)	
Operating conditions			
Other given operating conditions that affect environmental	I I	Ensure adequate ventilation	
exposure		It is based on the implementation of a suitable standard	
		for occupational hygiene.	
Risk management measures			
Conditions and measures in relation to personal protection, hygiene and health examinations		It is based on the implementation of a suitable standard for occupational hygiene.	
		Wear protective gloves/protective clothing and safety glasses/face shield.	
		Use appropriate respiratory protection, an effective dust mask	
		Use in case of insufficient ventilation	
		suitable breathing apparatus, (Dust/Mist)	
		In high concentrations: Use independent breathing apparatus	
		For further specifications see section 8 of the safety data sheet.	
2.2 Sub-scenario controlling environmental exp	osure (I	ERC7)	
Chemical production or refining in a closed process with ne	o likelih	pod of exposure or in processes with equivalent control condition	ns
Auviliary substances such as buffers, flocculating agents	nrecipit	ants neutralizing agents	
ERC7 Use of functional fluids i	in indus	trial equipment	
Product features			
There is no additional information			
Operating conditions			
Quantity used	T	Amount used Time	1000 t/year
Frequency and duration of use		of use/release.	365 days/year
Other operating conditions related to environmental		Not applicable	

exposure	Not applicable	
Risk management measures		
Conditions and measures related to the sewage treatment plant	Municipal wastewater treatment plant	It applies
	All polluted wastewater must be treated in an industrial	
	or municipal treatment plant, which can perform both initial	
	treatment and subsequent treatment.	

3. Exposure estimate and reference to its source

3.1.	Health					
Inform	Information for supporting exposure scenario					
2.1 No	data available					
3.2.	2. Environment					
Inform	Information for supporting exposure scenario					
2.2 No	2.2 No data available					
4. Instr	uctions for the downs	tream user to assess whether he is working within the limits set by the exposure scenario				
4.1.	Health					
Instruc	tions - health	No data available				
4.2.	Environment					
Instructions - environment		The expected exposure will not exceed the PNEC-value if the risk management measures/operating conditions in paragraph 2 are followed.				

1. Exposure scenario 17b

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EC medical devices Ref. no: 17b EC type: Worker					
Usage descriptors	PROC1 ERC7	PC20 SU22			
Processes covered by activities associated	with the tasks of the I	Health Service			
	Auxiliar	y substances such as buffers, flocculating agents, precipitants, r	eutralizing agents		
Evaluation method	Use in i	ndustrial facilities (IS) tion 3 in this exposure scenario			
2 Operating conditions and risk mana	gement measures				
2.1 Sub-scenario controlling work	er exposure (PROC1)			
Chemical production or refining in a closed	process with no likelih	nood of exposure or in processes with equivalent control condition	ns		
Auxiliary substances such as buffers, flocc	ulating agents, precipi	tants, neutralizing agents			
control c	n production or refining	g in a closed process with no likelihood of exposure of in process	ses with equivalent		
Product features					
Physical form		Liquid, coarse-grained solid			
Concentration of the substance in the mixture/article		It refers to the percentage of the substance in the product up to	> 100% (unless stated otherwise)		
Operating conditions					
Other given operating conditions that affect	environmental	Liquids	Checking the pH value.		
exposure		Coarse-grained solid	The product does not create		
			any dust during application.		
Risk management measures					
l echnical conditions and measures at the p	orocess level k	Not applicable			
Conditions and measures in relation to personal protection.		For further specifications see section 8 of the safety data sheet.			
hygiene and health examinations	· ·				
2.2 Sub-scenario controlling envir	onmental exposure	(ERC7)			
Chemical production or refining in a closed process with no likelihood of exposure or in processes with equivalent control conditions Auxiliary substances such as buffers, flocculating agents, precipitants, neutralizing agents					
Dise of fi	inctional fiulds in Indu	strial equipment			
Product features					
		Quantity used	1000 t/year		
Other operating conditions related to enviro	onmental	Not applicable			
exposure					
Risk management measures					
Conditions and measures related to the sewage treatment plant		Municipal wastewater treatment plant	Not applicable		
3. Exposure estimate and reference to	its source				
3.1. Health					
Information for supporting exposure scenario 2.1 No data available					
3.2. Environment					
Information for supporting exposure scenario					
2.2 No data available					
 4. Instructions for the downstream user to assess whether he is working within the limits set by the exposure scenario 4.1. Health 					
Instructions - health No data available					
4.2. Environment					
Instructions - environment The expected exposure will not exceed the PNEC-value if the risk management measures/operating conditions in paragraph 2 are followed.					

1. Exposure scenario 17c

EC medical devices Ref. no: 17c					
EC type: Consumer					
Usage descriptors	PC20 SU21 E	20 J21 ERC7			
Processes covered by activities associated with th	e tasks of the	e Health Service			
	Auxiliar	ry substances such as buffers, flocculating agents, precipitants	, neutralizing agents		
Evaluation method	Consun	ner Use (C)			
2 Operating conditions and risk management	See Sec	ction 3 in this exposure scenario			
		2001			
2.1 Sub-scenario controlling consumer e	xposure (PC				
Auxiliary substances such as buffers, flocculating a	agents, preci	pitants, neutralizing agents huffers, flocculating agents, precipitants, neutralizing agents			
Product features	<u>565 Such as</u>	burers, nocculating agents, precipitants, neutralizing agents			
Physical form		Coores areined calid liquid			
Concentration of the substance in the mixture/article		It refers to the percentage of the substance in the product up	to 100% (unless stated		
		otherwise)			
Operating conditions					
Other operating conditions related to the exposure	of the use o	f Liquid	Checking the pH value.		
		Coarse-grained solid	The product does not create		
			any dust during application.		
Risk management measures					
Conditions and measures related to consumer		Not applicable			
information and handling instructions					
2.2 Sub-scenario controlling environmen	tal exposure	e (ERC7)			
auxiliary substances such as buffers, flocculating a	igents, precip	pitants, neutralizing agents			
ERC7 Use of functional	fluids in indu	ustrial equipment			
Product features					
There is no additional information					
Operating conditions					
Quantity used		Annual site tonnage (tons/year):	1000		
Risk management measures					
There is no additional information					
3. Exposure estimate and reference to its sou	ce				
3.1. Health					
Information for supporting exposure scenario	Information for supporting exposure scenario				
2.1 No data available					
3.2. Environment					
Information for supporting exposure scenario					
2.2 EUSES					
4. Instructions for the downstream user to assess whether he is working within the limits set by the exposure scenario					
4.1. Health					
Instructions - health No data available					
4.2. Environment					
Instructions - environment The expected exposure will not exceed the PNEC-value if the risk management measures/operating conditions in paragraph 2 are followed.					