



ACTIVATED AND FILTER CARBON

Version 15.0

Date of printing 04/14/2023

Revision date / valid from 03/09/2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : ACTIVATED CARBON TH90-G, TH90-i, TH90-spez., TH90 spez-SA1, TH90H, CW20, S835, S835-spez., S814, S1240-200 plus, S1240spezial, S48, K835, K835-spez., K814, K814-spez., K300, K48, W48, SIL15-extra, SIL40-3S, SIL40extra, SIL40, SC40, SC44, J42, SIL15KJ, ZS10, SQ21, KC10, KC5, CCA-4, HS10 and FILTER CARBON (type N and H)

No. CAS : 7440-44-0

No. : 231-153-3

EC Reg. REACH No : 01-2119488894-16-XXXX

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance or mixture : Adsorption of all organic and inorganic substances from gas, liquid and solid media in all areas of human activity. Cleaning of air, gases, vapors, liquids, water and solids. Catalyst carrier in chemical reactions.

Unrecommended uses : We haven't found any unadvised uses at this time.

1.3. Details of the supplier of the safety data sheet

Firm Ekokoza s.r.o

Phone Fryčovice 297, 73945, Fryčovice

Fax ID: 07508247, eshop@ekokoza.cz

E-mail address

Responsible/issuing person

1.4. Telephone number for emergencies

Telephone number for emergencies : Toxicology Information Center

On the battlefield 1

128 21 Prague

tel. 00420-224 919 293

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture



ACTIVATED AND FILTER CARBON

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

The product is not classified as dangerous according to EC Regulation No. 1272/2008.

Most serious adverse effects

Human health : See section 11 for toxicological information

Physical and chemical hazards : See section 9/10 for physicochemical information

Possible effects on the environment : See section 12 Ecological information

2.2. Marking elements

Labeling according to Regulation (EC) No. 1272/2008

The product is not labeled according to Directive (EC) No. 1272/2008.

Other labeling information:

More information : Observe safety regulations for handling chemicals.

2.3. Another danger

A mixture of dust and air can catch fire or explode.
Wet activated carbon removes oxygen from the air in closed containers.
May be dangerous by inhalation of thermal decomposition products (carbon monoxide).
Contact with strong oxidizing agents will cause explosive combustion.

SECTION 3: Composition/information on ingredients

3.1. Substances

Comment : No dangerous additives according to Regulation (EC) No. 1907/2006.
It contains about 90% pure carbon, the rest is ash.

NON-hazardous ingredients:

Chemical name	Identification number	Content [%]
Activated carbon	CAS No.: 7440-44-0 EC No: 231-153-3	-

SECTION 4: First aid measures

4.1. Description of first aid



ACTIVATED AND FILTER CARBON

General instructions	: No hazards requiring special first aid. Never give anything by mouth to an unconscious person. Remove the affected person to fresh air and save.
When inhaled	: Stop exposure immediately and go to fresh air (watch out for contaminated clothing). Keep the casualty calm and warm. Seek medical attention if symptoms persist.
In contact with skin	: Wash with plenty of lukewarm water. If there is no damage (injury) to the skin, it is also possible to use soap. Remove contaminated clothing immediately. Seek medical attention if symptoms persist.
In contact with eyes	: Flush immediately with plenty of water for at least 10 minutes, including under the eyelids. Remove contact lenses. If problems persist, seek medical attention.
When ingested	: Turn the affected vomiting victim in a supine position to a stabilized side position. Rinse your mouth and drink more fluids. Never give anything by mouth to an unconscious person. Do not induce vomiting unless advised by a doctor. Seek medical attention (call a doctor in case of difficulty).

4.2. Most important symptoms and effects, both acute and delayed

Symptoms	: See section 11 for more information on symptoms and health effects
Effects	: See section 11 for more information on symptoms and health effects

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

Treatment	: No further information available
-----------	------------------------------------

SECTION 5: Firefighting measures

Basic fire technical characteristics: The product is difficult to ignite, flash point 400°C, in larger quantities the ignition temperature decreases. Burning rate - preliminary test (Art. 3320 ADR) > 2 minutes/200 mm does not reach the rate for the classification of a flammable substance, rated as a non-flammable substance. Calorific value 25,000 kJ/kg.

5.1. Fire extinguishers

Suitable extinguishing agents	: Small volumes: water and foam fire extinguishers, possibly sand or soil Large volumes: Heavy and medium foam or a stream of water in the form of a fine mist
Unsuitable fire extinguishers	: Snow extinguisher

5.2. Special hazards arising from the substance or mixture

Specific hazards at	: Avoid inhalation of combustion products. At thermal
---------------------	---

ACTIVATED AND FILTER CARBON

fire fighting

decomposition produces toxic emissions of carbon oxides. Liquids after extinguishing can enter the sewage system, surface and groundwater only if the activated carbon has not been contaminated by other substances.

5.3. Instructions for firefighters

Special protective equipment for firefighters

: In case of fire, use self-contained breathing apparatus and complete fire protective clothing.

Another recommendation.

: Common precautions for chemical fires. Measures in case of fire they should correspond to the surrounding conditions.

SECTION 6: Accidental release measures

6.1. Personal protection measures, protective equipment and emergency procedures

Personal protection measures: When working with the product and after it is finished, until thorough wash with soap and warm water, no eating, drinking or smoking. Refer to paragraphs 7 and 8 for safety precautions.

6.2. Environmental protection measures

Environmental protection measures

: Not prescribed.

6.3. Methods and material for containment and cleaning up

Methods and material for containment and cleaning up

: Collect and transfer to properly labeled containers.

More information

: Process the collected material in the manner indicated in the "Waste disposal" section.

6.4. Link to other sections

Personal protection see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Instructions for safe handling

: Spilled granules on a solid, smooth surface can cause slip. Avoid exposure, use suitable protective clothing, protective gloves and, in case of insufficient ventilation, a respirator. In the case of heat treatment, it is necessary to ensure effective extraction of exhaust fumes. Personal protection see section 8.

Hygiene measures

: General hygiene measures. When working with the product and after it is finished, until thoroughly washed with soap and warm water, eating, drinking and smoking are prohibited.

ACTIVATED AND FILTER CARBON

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

Storage requirements premises and containers	: Store containers tightly closed in a dry, dust-free and well ventilated place.
Instructions for protection against fire and explosion	: Common fire protection measures.
More information on storage conditions	: Protect from direct sunlight.
Storage instructions	: Store separately from food and feed. Store separately from organic solvents of all kinds and chemicals for which chemical resistance is not guaranteed.

7.3. Specific end / specific end uses

Specific (specific) uses	: No information available.
--------------------------	-----------------------------

SECTION 8: Exposure controls / personal protective equipment

8.1. Control parameters

Exposure limit values

Government Regulation No. 361/2007 Coll.

PELr : not set

PELc : 10 mg/m³

PELc - permissible exposure limit for the total concentration (respirable fraction) of dust in the working atmosphere

PELr - permissible exposure limit for the concentration of the respirable dust fraction in the working atmosphere

Recommended monitoring procedures for determining the concentration of activated carbon dust in the air: Sampling of the working environment using a sampling head to determine dustiness and subsequent evaluation by weighing. Determination of dust content with a dust meter.

8.2. Limiting exposure

Appropriate technical controls : Local ventilation or the overall ventilation system must ensure compliance with the relevant hygiene limits for dust.

Personal protective equipment

Respiratory protection

Recommendation : Under conditions of massive or repeated exposure, a suitable P2 anti-dust respirator must be used to protect the respiratory tract, in the case of heat treatment, effective fume extraction.

Hand protection



ACTIVATED AND FILTER CARBON

Recommendation : Protective gloves that comply with the conditions of the EU Directive 89/686/EEC and the EN 374 standard.
Normal work activity with the possibility of splashing (contact): material natural or synthetic leather, min. layer thickness 0.2 mm, penetration time > 480 min.
Use in liquidation of leaks and accidents: material Nitrile (KCL-732), min. layer thickness 0.4 mm, penetration time > 480 min.
Warning: During further heat treatment, the employer must assess the risk of burns with regard to the technology used.

Eye protection

Recommendation : Safety glasses, preferably closed or a protective shield.

Skin and body protection

Recommendation : Suitable protective clothing to prevent prolonged contact with the product.

Protective measures

Recommendation : No need to use special protective equipment.

Limiting environmental exposure

General instructions : Not prescribed.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	: Granules, grains or powder
Color	: Black
Odor	: Odorless
Odor Threshold	: Data not available
Melting point/range	: Data not available
Boiling point/boiling range : No data available	
Combustibility	: Non-flammable (preliminary test (Art. 3320 ADR) > 2 minutes/200 mm does not reach the speed for the classification of a flammable substance)
Upper explosion limit / Upper flammability limit	: Data not available
Lower explosive limit / Lower flammability limit	: Data not available
Flash-point	: > 400°C (Glimen)



ACTIVATED AND FILTER CARBON

Auto-ignition temperature	: Data not available
Decomposition temperature	: Data not available
Autocatalytic Decomposition Temperature (SADT)	: Data not available
pH	: 4 – 10 (4 g/100 ml of water)
Viscosity	
Dynamic viscosity	: Data not available
Kinematic viscosity	: Data not available
Discharge time	: Data not available
Solubility	
Solubility in water	: Insoluble
Solubility in other solvents	: Soluble: royal jelly, boiling nitric acid.
Dissolution rate	: Data not available
Partition coefficient: n-octanol/water	: Data not available
Dispersion stability	: Data not available
Steam pressure	: Data not available
Relative density	: Data not available
Density	: Data not available
Bulk density	: 400 – 600 kg/m ³
Relative vapor density	: Data not available
Particle size	: Data not available

9.2 Additional Information

Explosive properties	: Non-explosive
----------------------	-----------------

SECTION 10: Stability and reactivity

10.1. Reactivity

Recommendation	: No information available.
----------------	-----------------------------

10.2. Chemical stability

ACTIVATED AND FILTER CARBON

Recommendation : Under normal temperature and pressure or under normal technological processing conditions, dangerous degradation does not occur.

10.3. Possibility of hazardous reactions

Hazardous reactions : with oxidizing materials

10.4. Conditions to avoid

Conditions to avoid : Unsuitable storage conditions - do not expose to the open flame, sparks and other possible causes of ignition.
Avoid contact with substances with a dangerous chemical reaction.

Thermal decomposition : Data not available

10.5. Incompatible materials

Materials to avoid : Strong oxidizing agents - risk of fire and explosion.

10.6. Hazardous decomposition products

Hazardous decomposition products : During thermal decomposition, toxic emissions of carbon oxides occur.

SECTION 11: Toxicological information

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

Data for the product

Acute toxicity

Cutaneous

Result : Data not available

After ingestion

LD50 : > 10 g/kg (rat); there are no harmful effects on humans known

Result : Harmful if swallowed in large quantities, there is a risk of blockage of the digestive tract and intestines.

By inhalation

Result : Harmful by inhalation, clogs airways.

Irritability

Skin



ACTIVATED AND FILTER CARBON

Result : The dust is weak, especially mechanically irritating to sensitive skin.

Eyes

Result : Risk of serious damage to eyes, dust mainly mechanically
it irritates the eyes.

Respiratory sensitization / skin sensitization

Result : Data not available

CMR

Carcinogenicity : Data not available

Mutagenicity : Data not available

Reproductive toxicity : Data not available

Specific target organ toxicity - single exposure

Result : Data not available

Specific target organ toxicity - repeated exposure

Result : Data not available

Inhalation hazard

Result : Data not available

More information

Additional information on toxicity : Follow the safety regulations for handling chemicals.

Human exposure experience : No health damage is known or expected under normal use.

11.2. Information on additional hazards

Data for the product

Endocrine-disrupting properties

Data not available

ACTIVATED AND FILTER CARBON

SECTION 12: Ecological information

12.1. Toxicity

It is not toxic to aquatic organisms, it cannot cause long-term adverse effects in the aquatic environment. Pursuant to the Water Act No. 254/2001 Coll. (appendices No. 1) is not considered a substance dangerous. The product can be mechanically separated.

Data for the product

Acute toxicity

Fish

Result : Data not available

Water flower

Result : Data not available

12.2. Persistence and degradability

Data for the product

Persistence and degradability

Persistence

Result : Data not available

Biodegradability

Result : Activated carbon is biodegradable

12.3. Bioaccumulative potential

Data for the product

Bioaccumulation

Result : Data not available

12.4. Mobility in soil

Data not available

12.5. Results of PBT and vPvB assessment

Data for the product

ACTIVATED AND FILTER CARBON

Results of PBT and vPvB assessment

Result : Data not available

12.6. Endocrine-disrupting properties

Data not available

12.7. Other adverse effects

Data for the product

Adsorbed organically bound halogens (AOX)

Result : Data not available

Additional ecological information

Result : Data not available

SECTION 13: Disposal considerations

13.1. Waste management methods

Product	: May be landfilled in accordance with local regulations. Dispose of in accordance with local and national regulations. Unused product residues can be disposed of as normal waste. Contaminated activated carbon (except for the water industry) is hazardous waste and its disposal depends on the pollution and origin according to the waste catalog and, based on the results of the analyses, it should be disposed of at a landfill for hazardous waste, or remove in an incinerator.
Contaminated packaging	: Empty packaging is not hazardous waste. Empty packaging would they should be handed over to a company authorized to handle waste for recycling or disposal.
Number from the European waste catalog	: This product cannot be assigned any code from the European Waste Catalog because its assignment is determined by the intended use. The waste code was established in consultation with the local authorities responsible for waste disposal.

SECTION 14: Transport information

Not dangerous goods in terms of transport: ADR, RID, IMDG and IATA.

14.1. UN number or ID number

not applicable



ACTIVATED AND FILTER CARBON

14.2. Official (UN) shipping name

not applicable

14.3. Transport hazard class(es).

not applicable

14.4. Packaging group

not applicable

14.5. Danger to the environment

not applicable

14.6. Special safety measures for users

not applicable

14.7 Maritime bulk transport according to IMO instruments

It does not apply to this product as it is delivered.

SECTION 15: Regulatory Information

15.1. Safety, Health and Environmental Regulations/ Specific Legislation relating to a substance or mixture

Data for the product

Other regulations

: The final classification of waste is carried out by its originator according to the characteristics of the waste at the time of its generation in accordance with the Decree of the Ministry of the Environment as amended. The product is labeled according to EU directives or applicable national regulations. All the mentioned laws should be considered with regard to later changes in the valid wording. 350/2011 LAW of 27 October 2011 on chemical substances and chemical mixtures and on the amendment of certain laws (chemical law) with effect from 1 January 2012 Directive (EC) No. 1272/2008 on classification, labeling and packaging of substances and mixtures, on amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No. 1907/2006, as amended. 1) Council Directive 67/548/EEC on the approximation of legal and administrative regulations relating to the classification, packaging and labeling of dangerous substances, as amended. Regulation of the European Parliament and the Council (EC) No. 1907/2006 of 18 December 2006 on registration, evaluation, authorization and restriction of chemical substances, on the establishment of the European Chemicals Agency, on the amendment of Directive 1999/45/EC and on the repeal of Council Regulation (EEC) No. 793/93, Commission Regulation (EC) No. 1488/94, Directive Council 76/796/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 689/2008 of the European Parliament and of the Council of 17 June 2008 on the export and import of dangerous chemical

ACTIVATED AND FILTER CARBON

substances.

Regulation of the European Parliament and the Council (EC) No. 648/2004 of on March 31, 2004 on detergents, as amended.

Regulation (EC) No. 850/2004 of the European Parliament and of the Council of 29 April 2004 on

persistent organic pollutants and the amendment of Directive 79/117/EEC, as amended. Regulation of the European Parliament and of the Council (EC) No. 1272/2008 of 16 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 on the amendment of the Regulation (EC) No.

1907/2006, as amended. Commission Regulation (EC) No. 440/2008 of 30 May 2008 laying down test methods pursuant to Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemical Substances, as amended. Commission Regulation (EC) No. 340/2008 of 16 April 2008 on fees and payments to the European Chemicals Agency pursuant to Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

Art. 2 paragraph 7 of Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16 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. 4) Art. 2 paragraph 8 of Regulation (EC)

No. 1272/2008 of the European Parliament and of the Council of 16 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. Commission Regulation (EC) No 440/2008 of 30 May 2008 establishing test methods according to the Regulation of the European Parliament and the Council (EC) No. 1907/2006 on the registration, evaluation, authorization and restriction of chemical substances, as amended. Law no.

111/1994 Coll., on road transport, as amended, European Agreement on the International Carriage of Dangerous Goods by Road (ADR), promulgated under No. 64/1987 Coll., as amended. Act No. 114/1995 Coll., on inland navigation, as amended. Decree No. 17/1966 Coll., on air transport regulations, as amended by Decree No. 15/1971 Coll. Act No. 61/2000 Coll., on maritime navigation.

Government Regulation No. 361/2007 Coll., which establishes conditions for health protection at work, as amended by Government Regulation No. 68/2010 Coll. Art. 31 Regulation of the European Parliament and Council (EC)

No. 1907/2006 of 18 December 2006 on the registration, evaluation, 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 of the Regulation Council (EEC) No. 793/93, Commission Regulation (EC) No. 1488/94, Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended.

Art. 9 paragraph 3 and Annex VII of the Regulation of the European Parliament and the Council (EC) no.

648/2004 of March 31, 2004 on detergents, as amended. Regulation of the European Parliament and of the Council (EC) No. 850/2004 of April 29, 2004 on persistent organic pollutants and amending Directive 79/117/EEC, in

ACTIVATED AND FILTER CARBON

valid wording.

Folder:	Carbon - High Density Skeleton	CAS No. 7440-44-0
----------------	---------------------------------------	--------------------------

EU. REACH, Annex XVII, : ; The substance/mixture is not subject to these regulations.
Marketing and Use
Restrictions (Regulation
1907/2006/EC)

15.2. Chemical safety assessment

Data not available

SECTION 16: Further information

Abbreviations and acronyms

AU AIICL	Australia. Industrial Chemicals Act (AIIC) Sheet
BCF	bioconcentration factor
BOD	biochemical oxygen consumption
TIME	Chemical Abstracts Service
CLP	classification, labeling and packaging
CMR	carcinogenic, mutagenic or toxic for reproduction
COD	chemical oxygen consumption
TODAY	derived level at which no adverse effects occur
DSL	Canada. Environmental Protection Act, Domestic Substances List
EINECS	European list of existing traded chemical substances
ELINCS	European list of notified chemical substances
ENCS (JP)	Japan. Kashin-Hou Law List
GHS	globally harmonized system of classification and labeling of chemical substances
IECSC	China. Inventory of Existing Chemical Substances
INSQ	Mexico. National Inventory of Chemical Substances
ISHL (JP)	Japan. Inventory of Industrial Safety & Health
CRAP (KR)	Korea. Existing Chemicals Inventory
LC50	medium lethal concentration
LOAEC	the lowest concentration with an observed adverse effect
LOAEL	the lowest dose with an observed adverse effect
LOL	the lowest dose with an observed effect
NDSL	Canada. Environmental Protection Act. Non-Domestic Substances List
NLP	a substance that is no longer considered a polymer
NOAEC	concentration with no observed adverse effect

ACTIVATED AND FILTER CARBON

NOAEL	dose value with no observed adverse effect
NOEC	concentration without observed effects
CHRISTMAS	no-observed-effect dose value
NZIOC	New Zealand. Inventory of Chemicals
OECD	Organization for Economic Cooperation and Development
OEL	workplace exposure limit value
ONT INV	Canada. Ontario Inventory List
PBT	persistent, bioaccumulative and toxic
PHARM (JP)	Japan. Pharmacopoeia Listing
PICCS (PH)	Philippines. Inventory of Chemicals and Chemical Substances
PNEC	an estimate of the concentration at which no adverse effects occur
REACH Auth. Well	REACH authorization number
REACH AuthAppC. Well	REACH consultation number of the authorization application
STOT	toxicity to specific target organs
SVHC	substance of very high concern
TCSI	Taiwan. Existing Chemicals Inventory
TH INV	Thailand. Existing Chemicals Inventory from FDA
TSCA	US. Toxic Substances Control Act
UVCB	substance of unknown or variable composition, complex reaction product, or biological material
VN INVL	Vietnam. National Chemical Inventory
vPvB	highly persistent and highly bioaccumulative

More information

Important literature references and data sources	: Supplier information and data from the "Database of Registered Substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.
Methods used for product classification.	: Classifications for human health, physical and chemical hazards and environmental hazards have been derived using a combination of calculation methods and possible, available test data.
Training Guidelines	: Workers must be regularly trained on safe handling the products based on the information provided in the safety data sheet and local conditions at the workplace. National regulations for the training of workers in the handling of hazardous substances must be observed.
More information	: The information contained in this safety data sheet is to the best of our knowledge at the time the revision was made. The information only describes the product with regard to handling safety, it is not a quality specification, it does not establish the law. The information contained in this safety data sheet applies only to this material and cannot be valid for this material used in combination with another material or in another process not described in the text.



ACTIVATED AND FILTER CARBON

:

The information in this safety data sheet is to the best of our knowledge, information and belief at the time of its issuance. The information provided is only intended as a guide for the safe handling, use, storage, processing, transportation, disposal and release of the product and should not be considered as a warranty or quality specification. The information applies only to the specific material named and may become invalid if used in combination with any other materials or in any processes unless specifically stated in the text.

This safety data sheet contains only information related to safety and does not replace product information or its specification.

|| The section has been redesigned.