

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

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Version: 4

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SIHA Activated Carbon FA / Activated Carbon UF / Activated Carbon PF-UF

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

1.1. Product identifier

Trade name/designation:

SIHA Activated Carbon FA / Activated Carbon UF / Activated Carbon PF-UF

REACH No.:

01-2119488716-22

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

Use of the substance/mixture:

Product for Beverage treatment

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Eaton Technologies GmbH

Langenlonsheim Branch

An den Nahewiesen 24

55450 Langenlonsheim

Germany

Telephone: +49 6704 204-0 (Diese Nummer ist nur zu Bürozeiten besetzt.)

Telefax: +49 6704 204-121

E-mail: SDB@Eaton.com

Website: www.eaton.com/filtration

1.4. Emergency telephone number

No data available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
self-heating substances and mixtures (Self-heat. 2)	H252: Self-heating in large quantities; may catch fire.	

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

hazard statements for physical hazards	
H252	Self-heating in large quantities; may catch fire.
Precautionary statements Prevention	
P235 + P410	Keep cool. Protect from sunlight.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statements Storage	
P407	Maintain air gap between stacks or pallets.
P413	Store bulk masses greater than 50.000 kg/110.200 lbs at temperatures not exceeding 50 °C/122 °F.
P420	Store separately.

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2.3. Other hazards

Adverse human health effects and symptoms:

Inhalation of dust may cause irritation of the respiratory system.

Never enter a confined space containing wet activated carbon as it will adsorb oxygen and asphyxiation may result. If necessary measure oxygen concentration. Note regulations for prevention of accidents.

SECTION 3: Composition / information on ingredients

3.1. Substances

Description:

Carbon chemically activated (CAS Nr.: 7440-44-0).

SECTION 4: First aid measures

* 4.1. Description of first aid measures

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

Subsequently wash off with: Water and soap

in general the product is not irritant to skin

IF ON CLOTHING: Change contaminated, saturated clothing.

After eye contact:

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion:

Rinse mouth immediately and drink plenty of water.

Consult physician immediately.

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

No data available

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

No data available

SECTION 5: Firefighting measures

* 5.1. Extinguishing media

Suitable extinguishing media:

Water spray, Foam, Extinguishing powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media:

Full water jet,

* 5.2. Special hazards arising from the substance or mixture

Material will burn in a fire, releasing combustion products of carbon monoxide and carbon dioxide. Other materials adsorbed on to the carbon may also be released.

Hazardous combustion products:

Carbon dioxide (CO₂)

Carbon monoxide

5.3. Advice for firefighters

Protective clothing: In case of fire: Wear self-contained breathing apparatus.

5.4. Additional information

No data available

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Avoid dust formation. Provide adequate ventilation. Avoid contact with eyes and skin.
Do not breathe dust.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Take up mechanically, placing in appropriate containers for disposal. Avoid dust formation.

* 6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

6.5. Additional information

No data available

SECTION 7: Handling and storage

* 7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Follow good handling and housekeeping procedures, avoid spills, accumulation of dust and generation of airborne dust. Avoid prolonged contact with skin and eyes; wear protective gloves and safety glasses or goggles.

Provide adequate ventilation.

Fire prevent measures:

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

May form combustible dust concentrations in air.

Keep/Store away from combustible materials.

* 7.2. Conditions for safe storage, including any incompatibilities

Packaging materials:

Keep/Store only in original container.

Requirements for storage rooms and vessels:

Keep container tightly closed in a cool, well-ventilated place. Keep container dry.

Hints on storage assembly:

Do not store together with: Material, combustible. Oxidising agent, Strong acid.

Remove all sources of ignition.

Keep away from heat.

Storage class: 4.2 - Pyrophoric or self-heating substances

Further information on storage conditions:

Store bulk masses greater than ... kg/... lbs at temperatures not exceeding ... °C/... °F.

50.000 kg

50 °C

7.3. Specific end use(s)

No data available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	carbon CAS No.: 7440-44-0	① 1.25 mg/m ³ ② 2.5 mg/m ³ ⑤ Staubgrenzwert alveolengängige Fraktion
TRGS 900 (DE)	carbon CAS No.: 7440-44-0	① 10 mg/m ³ ② 20 mg/m ³ ⑤ Staubgrenzwert einatembare Fraktion
DFG (DE)	carbon CAS No.: 7440-44-0	① 0.3 mg/m ³ ② 2.4 mg/m ³ ⑤ Staubgrenzwert alveolengängige Fraktion
DFG (DE)	carbon CAS No.: 7440-44-0	① 4 mg/m ³ ⑤ Staubgrenzwert einatembare Fraktion

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
carbon CAS No.: 7440-44-0	1.8 mg/m ³	① DNEL worker ② DNEL long-term inhalative (systemic)
carbon CAS No.: 7440-44-0	0.9 mg/m ³	① DNEL Consumer ② DNEL long-term inhalative (systemic)

* 8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

Tightly sealed safety glasses.

Additional eye protection measures: Provide eye shower and label its location conspicuously

Skin protection:

Protect skin by using skin protective cream.

Hand protection: The glove material has to be impermeable and resistant to the product/the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Suitable material: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Breakthrough time (maximum wearing time): The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Respiratory protection:

Respiratory protection necessary at: high concentrations

Suitable respiratory protection apparatus: Filtering device (DIN EN 147) P 2

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Other protection measures:

Protective clothing: Wear personal protection equipment.

General health and safety measures: Wash hands before breaks and after work.

8.2.3. Environmental exposure controls

No data available

8.3. Additional information

Inhalation of dust may cause irritation of the respiratory system.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Powder

Colour: black

Odour: none

Safety relevant basis data

parameter		at °C	Method	Remark
pH	2 - 8			
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature (°C):	<i>not determined</i>			
Flash point	<i>not determined</i>			
Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	> 250 °C			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Relative density	<i>not determined</i>			
Bulk density	250 - 600 kg/m ³			
Water solubility	<i>not determined</i>			
Partition coefficient: n-octanol/ water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			

9.2. Other information

Entzündlichkeit (Feststoff/Gas): Flammable

Explosionsgefahr: Under normal conditions no danger of explosion. Unfavourable conditions may form an explosive dust/air mixture.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

* 10.3. Possibility of hazardous reactions

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

* 10.4. Conditions to avoid

Heat and ignition sources, contact with strong oxidisers and combustible.

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10.5. Incompatible materials

Under normal conditions no danger of explosion. Unfavourable conditions may form an explosive dust/air mixture.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide

SECTION 11: Toxicological information

* 11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
7440-44-0	carbon	LD₅₀ oral: >2,000 mg/kg (Ratte) OECD 423 LC₅₀ inhalative: >8.5 ppmV 1 h (Ratte) OECD 403

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

Inhalation of dust may cause irritation of the respiratory system.

Skin corrosion/irritation:

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

Serious eye damage/irritation:

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

Respiratory or skin sensitisation:

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

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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

STOT-single exposure:

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

STOT-repeated exposure:

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

Aspiration hazard:

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

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity:

According to the present state of knowledge negative ecological effects are not expected.

12.2. Persistence and degradability

Additional information:

Further ecological information: No data available

12.3. Bioaccumulative potential

Accumulation / Evaluation:

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

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12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The disposal of the product has to be carried out in accordance with the legal requirements. EWC waste codes are strictly industry-oriented, therefore waste classification has to be done by the waste producer.

Waste treatment options



Appropriate disposal / Package:

Non-contaminated packages may be recycled.

13.2. Additional information

No data available

SECTION 14: Transport information

Land transport (ADR/RID)	Sea transport (IMDG)	
14.1. UN-No.		
UN 1362	UN 1362	
14.2. UN proper shipping name		
CARBON, ACTIVATED	CARBON, ACTIVATED	
14.3. Transport hazard class(es)		
 4.2	 4.2	
14.4. Packing group		
III	III	
14.5. Environmental hazards		
No	No	
14.6. Special precautions for user		
Special provisions: Limited quantity (LQ): Hazard identification number (Kemler No.): 40 Classification code: - Remark: Not subject to the class. 4.2 (according to 2.2.42.1.5 ADR) during transport of the product in bags or big bags/IBC <3m ³ .	Special provisions: Limited quantity (LQ): EmS-No.: F-A , S-J Remark: Not subject to the class. 4.2 (according to 2.2.42.1.5 ADR) during transport of the product in bags or big bags/IBC <3m ³ .	

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU legislation

No data available

15.1.2. National regulations

[DE] National regulations

Water hazard class (WGK)

WGK:

nwg - nicht wassergefährdend

* 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

15.3. Additional information

No data available

SECTION 16: Other information

16.1. Indication of changes

1.1.	Product identifier
4.1.	Description of first aid measures
5.1.	Extinguishing media
5.2.	Special hazards arising from the substance or mixture
6.4.	Reference to other sections
7.1.	Precautions for safe handling
7.2.	Conditions for safe storage, including any incompatibilities
8.2.	Exposure controls
10.3.	Possibility of hazardous reactions
10.4.	Conditions to avoid
11.1.	Information on toxicological effects
14.1.	UN number
14.3.	Transport hazard class(es)
15.2.	Chemical Safety Assessment

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
self-heating substances and mixtures (Self-heat. 2)	H252: Self-heating in large quantities; may catch fire.	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

No data available

16.6. Training advice

No data available

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16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

* Data changed compared with the previous version