

OF006-K05 Fauch 200

Version 1.4

Revision Date 01.10.2011

Print Date 07.12.2011

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : OF006-K05 Fauch 200

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

Use of the Sub-
stance/Mixture : Product for removing from soot in boiler systems

1.3 Details of the supplier of the safety data sheet

Company : hebro chemie GmbH
Rostocker Str. 40
41199 Mönchengladbach

Lead Organisation : Arbeitsschutz

Telephone : +49 (0) 2166 6009-0

Telefax : +49 (0) 2166 6009-99

Contact person product safety

Telephone : +49 (0) 2166 6009-176

E-mail address : sdb@hebro-chemie.de

1.4 Emergency telephone number

: Giftinformationszentrum Erfurt:
+49 (0) 361 730 730

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (67/548/EEC, 1999/45/EC)

Harmful R22: Harmful if swallowed.

2.2 Label elements

Labelling according to EC Directives (1999/45/EC)

Hazard pictograms :



Harmful

R-phrase(s) : R22 Harmful if swallowed.

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S-phrases) : S24 Avoid contact with skin.
S46 If swallowed, seek medical advice immediately and show this container or label.

Hazardous components which must be listed on the label:

- 107-21-1 Ethanediol; Ethylene glycol

2.3 Other hazards

The information required is contained in this Material Safety Data Sheet.

3. Composition/information on ingredients

3.1 Substances

Identification: OF006-K05 Fauch 200

3.2 Mixtures

Chemical nature : Preparation based on inorganic salts

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Ethanediol; Ethylene glycol	107-21-1 203-473-3	Xn; R22	Acute Tox. 4; H302	>= 80 - <= 100
Copper dichloride	7447-39-4 2312102	Xn; R22 Xi; R36/38 N; R50/53	Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315 Aquatic Chronic 1; H410	>= 2.5 - < 10
Ammonium chloride	12125-02-9 235-186-4	Xn; R22 Xi; R36	Acute Tox. 4; H302 Eye Irrit. 2; H319	>= 2.5 - < 10

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

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For the full text of the Notas mentioned in this Section, see Section 16.

4. First aid measures

4.1 Description of first aid measures

- General advice : When symptoms persist or in all cases of doubt seek medical advice.
- If inhaled : Provide fresh air.
Keep patient warm and at rest.
If symptoms persist, call a physician.
- In case of skin contact : Take off all contaminated clothing immediately.
After contact with skin, wash immediately with plenty of soap and water.
- In case of eye contact : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
Seek medical advice.
- If swallowed : Call a physician immediately.
Keep at rest.
Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Erythema

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.
For specialist advice physicians should contact the Poisons Information Service.

5. Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry powder
Water spray jet
- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : Hazardous decomposition products formed under fire conditions.
Carbon monoxide
nitrogen oxides (NO_x)

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5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self contained breathing apparatus for fire fighting if necessary.
- Further information : Use water spray to cool unopened containers.
Suppress (knock down) gases/vapours/mists with a water spray jet.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Ensure adequate ventilation.
Do not breathe vapours, aerosols.
Remove all sources of ignition.

6.2 Environmental precautions

- Environmental precautions : Do not empty into drains.
Inform the relevant authorities if it enters sewers, aquatic environment or soil.

6.3 Methods and materials for containment and cleaning up

- Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See chapter 8 and 13

7. Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Keep away from open flames, hot surfaces and sources of ignition.
Take precautionary measures against static discharges.
Avoid contact with skin and eyes.
Do not breathe vapours or spray mist.
When using do not eat, drink or smoke.
For personal protection see section 8.
- Advice on protection against fire and explosion : Vapours are heavier than air and may spread along floors.
Vapours may form explosive mixtures with air.

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7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Follow the water regulations.
Keep only in the original container in a cool, well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- Further information on storage conditions : Keep only in the original container in a cool, well-ventilated place.
Keep away from heat.
Keep away from sources of ignition - No smoking.
Keep at temperatures between - 7°C and 40°C.
- Advice on common storage : Incompatible with oxidizing agents.

7.3 Specific end uses

- Specific use(s) : Product for removing from soot in boiler systems

8. Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
Ethanediol; Ethylene glycol	107-21-1	TWA	20 ppm 52 mg/m ³	2000-06-16	2000/39/EC
Further information	: skin: Identifies the possibility of significant uptake through the skin Indicative				
	107-21-1	STEL	40 ppm 104 mg/m ³	2000-06-16	2000/39/EC
Further information	: skin: Identifies the possibility of significant uptake through the skin Indicative				
	107-21-1	TWA	20 ppm 52 mg/m ³	2005-04-06	GB EH40
Further information	: Sk: Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.				
	107-21-1	STEL	40 ppm	2005-04-06	GB EH40

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			104 mg/m3		
Further information	:	Sk: Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		107-21-1	TWA	10 mg/m3	2005-04-06 GB EH40
Further information	:	Sk: Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			

8.2 Exposure controls

Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. La clase de filtro para el respirador debe ser adecuada para la concentración máxima prevista del contaminante (gas/vapor/aerosol/partículas) que puede presentarse al manejar el producto. Si se excede esta concentración, se debe utilizar un aparato respiratorio autónomo. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

Eye protection : Safety glasses with side-shields

Skin and body protection : Protective suit

Protective measures : Follow the skin protection plan.

Environmental exposure controls

General advice : Do not empty into drains. Inform the relevant authorities if it enters sewers, aquatic environment or soil.

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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: green
Odour	: odourless
Flash point	: 123 °C
Ignition temperature	: 365 °C
Lower explosion limit	: 3.2 %(V)
Upper explosion limit	: 53 %(V)
pH	: no data available
Vapour pressure	: 4 hPa at 20 °C Information taken from reference works and the literature.
Density	: 1.18 g/cm ³ at 20 °C Method: DIN 51757
Water solubility	: 1,000 g/l completely soluble

9.2 Other information

Explosivity : In use, may form flammable/explosive vapour-air mixture.

10. Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

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The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Product is stable under appropriate usage.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity
Ethanediol; Ethylene glycol : Acute toxicity estimate: 500 mg/kg
Method: Converted acute toxicity point estimate

Ammonium chloride : Acute toxicity estimate: 500 mg/kg
Method: Converted acute toxicity point estimate

Acute dermal toxicity
Ethanediol; Ethylene glycol : LD50: 9,530 mg/kg
Species: rabbit

Skin corrosion/irritation

Skin irritation : Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.

Serious eye damage/eye irritation

Eye irritation : The liquid splashed in the eyes may cause irritation and reversible damage.

Respiratory or skin sensitization

Sensitisation : This information is not available.

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Carcinogenicity

Remarks : Not classifiable as a human carcinogen.

Further information

: According to many years of experience, there are no known harmful effects when handled properly.
Description of possible hazardous to health effects is based on experience and/or toxicological characteristics of several components.

12. Ecological information

12.1 Toxicity

Toxicity to fish : no data available

Toxicity to fish
Ethanediol; Ethylene glycol : LC50: > 10,000 mg/l
Exposure time: 96 h
Species: Pimephales promelas (Fathead minnow)

LC50: 40,761 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)

Ammonium chloride : LC50: 209 mg/l
Exposure time: 96 h
Species: Cyprinus carpio (Carp)

Toxicity to daphnia and other aquatic invertebrates.
Ethanediol; Ethylene glycol : EC50: 41,100 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

Ammonium chloride : EC50: > 100 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

Toxicity to algae
Ethanediol; Ethylene glycol : EC50: > 10,000 mg/l
Species: Scenedesmus capricornutum (fresh water algae)

Toxicity to bacteria
Ethanediol; Ethylene glycol : EC50: 10,000 mg/l

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Exposure time: 17 h
Species: Pseudomonas putida

12.2 Persistence and degradability

Biodegradability : no data available

12.3 Bioaccumulative potential

Bioaccumulation : no data available

12.4 Mobility in soil

Mobility : no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

Additional ecological information : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

13. Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.
Do not let product enter drains.
Do not dispose of with domestic refuse.

Packaging : Do not dispose of with domestic refuse.

Contaminated packaging : Dispose of in accordance with local regulations.

Waste Code : 060313 solid salts and solutions containing heavy metals

14. Transport information

ADR
Not dangerous goods

IATA
Not dangerous goods

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IMDG

Not dangerous goods

RID

Not dangerous goods

15. Regulatory information

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

Other regulations : The product is classified and labelled in accordance with EC directives or respective national laws. Regional or national implementations of GHS may not implement all hazard classes and categories.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R22	Harmful if swallowed.
R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H410	Very toxic to aquatic life with long lasting effects.

Full text of Notas referred to under section 3

Further information

The information provided is based on our current knowledge and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product.

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.