

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

OF008-K05 Fauch 300

Version: 1.9

Revision Date 15.06.2013

Print Date 29.12.2013

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

1.1 Product identifier

Trade name : OF008-K05 Fauch 300

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

Use of the Sub-stance/Mixture : Gloss soot and wood tar remover for oil and solid heated boiler plants

1.3 Details of the supplier of the safety data sheet

Company : hebro chemie GmbH
Rostocker Str. 40
41199 Mönchengladbach
Contact person : Wolfgang Schaffers
Telephone : +49 (0) 2166 6009-0
Telefax : +49 (0) 2166 6009-99
Contact person product safety : Abteilung Produktsicherheit
E-mail address : info-produktsicherheit@gmx.de

1.4 Emergency telephone number

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Corrosive R35: Causes severe burns.

2.2 Label elements

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

Hazard pictograms :



Corrosive

R-phrase(s) : R35 Causes severe burns.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

OF008-K05 Fauch 300

Version: 1.9

Revision Date 15.06.2013

Print Date 29.12.2013

S-phrase(s) : S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27 Take off immediately all contaminated clothing.
S37/39 Wear suitable gloves and eye/face protection.

Hazardous components which must be listed on the label:

- 1310-58-3 Potassium Hydroxide

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Chemical nature : Alkaline cleaner based on lye and silicates
Nonionic tensides, solubilizer
Mixture of inorganic salts.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Potassium Hydroxide	1310-58-3 215-181-3 01-2119487136-33	C; R35 Xn; R22	Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1A; H314	>= 10 - < 25
Ethanediol; Ethylene glycol	107-21-1 203-473-3 01-2119456816-28	Xn; R22	Acute Tox. 4; H302 STOT RE 2; H373	>= 2.5 - < 10

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

OF008-K05 Fauch 300

Version: 1.9

Revision Date 15.06.2013

Print Date 29.12.2013

Isotridecanol	27458-92-0 248-469-2 01-2119488528-21	Xi; R38 N; R50	Skin Irrit. 2; H315 Aquatic Acute 1; H400	>= 0.1 - < 1
---------------	---	-------------------	--	--------------

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

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Take off contaminated clothing and shoes immediately.
- If inhaled : Provide fresh air.
If unconscious place in recovery position and seek medical advice.
Move to fresh air.
Keep patient warm and at rest.
- In case of skin contact : Take off all contaminated clothing immediately.
After contact with skin, wash immediately with plenty of soap and water.
Do NOT use solvents or thinners.
Consult a physician.
- In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Keep eye wide open while rinsing.
- If swallowed : If swallowed, seek medical advice immediately and show this container or label.
Keep at rest.
Immediately give large quantities of water to drink.
Do NOT induce vomiting.
Provide fresh air.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Erythema
Blistering
Pain
- Risks : corrosive effects

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

OF008-K05 Fauch 300

Version: 1.9

Revision Date 15.06.2013

Print Date 29.12.2013

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.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Hazardous decomposition products formed under fire conditions.
Exposure to decomposition products may be a hazard to health.
May react strongly with amphoteric metals (aluminium, lead, zinc, ..): forms Hydrogen (Combustible).

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self contained breathing apparatus for fire fighting if necessary.
Use only breathing apparatus which are resistant against caustic compounds.

Further information : The product itself does not burn.
Use water spray to cool unopened containers.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear suitable protective clothing, gloves and eye/face protection.

6.2 Environmental precautions

Environmental precautions : Inform the relevant authorities if it enters sewers, aquatic environment or soil.

6.3 Methods and materials for containment and cleaning up

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

OF008-K05 Fauch 300

Version: 1.9

Revision Date 15.06.2013

Print Date 29.12.2013

Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Contaminated surfaces will be extremely slippery.
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See chapter 8 and 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.
Have eye wash bottle or eye rinse ready at the work place.
Avoid contact with skin and eyes.
Product is used in dilutions with water

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Keep in a well-ventilated place.

Further information on storage conditions : Avoid contact with amphoteric metals (e.g. aluminium, lead, zinc).
Protect from frost.

Advice on common storage : Do not store together with acids and ammonium salts.

7.3 Specific end uses

Specific use(s) : Gloss soot and wood tar remover for oil and solid heated boiler plants

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
Potassium Hydroxide	1310-58-3	STEL	2 mg/m ³	2005-04-06	GB EH40

OF008-K05 Fauch 300

Version: 1.9

Revision Date 15.06.2013

Print Date 29.12.2013

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 104 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	TWA	10 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. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used				

DNEL/DMEL

Ethanediol; Ethylene glycol : End Use: Industrial use, Workers, DNEL
 Exposure routes: Inhalation
 Potential health effects: Short-term exposure, Local effects
 Value: 35 mg/m³

End Use: DNEL, Industrial use, Workers
 Exposure routes: Skin contact
 Potential health effects: Long-term systemic effects
 Value: 106 mg/kg bw/d

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

OF008-K05 Fauch 300

Version: 1.9

Revision Date 15.06.2013

Print Date 29.12.2013

PNEC

Ethanediol; Ethylene glycol : Fresh water
Value: 10 mg/l

Marine water
Value: 1 mg/l

Behaviour in waste water treatment plants
Value: 199.5 mg/l

Fresh water sediment
Value: 20.9 mg/kg dry weight (d.w.)

Soil
Value: 1.53 mg/kg

8.2 Exposure controls

Personal protective equipment

Respiratory protection : not required

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

Eye protection : Tightly fitting safety goggles

Skin and body protection : Wear suitable protective clothing.

Environmental exposure controls

General advice : Inform the relevant authorities if it enters sewers, aquatic environment or soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid
Colour : yellow
Odour : mild
pH : 12.5
at 10 g/l

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

OF008-K05 Fauch 300

Version: 1.9

Revision Date 15.06.2013

Print Date 29.12.2013

20 °C

Density : 1 g/cm³
at 20 °C
Method: DIN 51757

Water solubility : 1,000 g/l
completely soluble

9.2 Other information

Explosivity : no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed., No hazards to be specially mentioned.

10.2 Chemical stability

10.3 Possibility of hazardous reactions

Hazardous reactions : Exothermic reaction with strong acids.

10.4 Conditions to avoid

Conditions to avoid : Product is stable under appropriate usage.

10.5 Incompatible materials

Materials to avoid : Acids
Ammonium salts
Aluminium
Lead
Zinc
Amphoteric metals are attacked developing hydrogen (combustible).

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. : Carbon monoxide
Carbon dioxide (CO₂)
Hydrogen

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

OF008-K05 Fauch 300

Version: 1.9

Revision Date 15.06.2013

Print Date 29.12.2013

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

Potassium Hydroxide : LD50: 365 mg/kg
Species: rat

Ethanediol; Ethylene glycol : LD50: > 300 - < 2,000 mg/kg
Species: rat

Acute inhalation toxicity

Ethanediol; Ethylene glycol : LC50: > 2.5 mg/l
Exposure time: 6 h
Species: rat

Acute dermal toxicity

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

Skin corrosion/irritation

Skin irritation : Causes burns.

Serious eye damage/eye irritation

Eye irritation : Causes burns.

Respiratory or skin sensitisation

Sensitisation : This information is not available.

Germ cell mutagenicity

Ethanediol; Ethylene glycol : Ames test
Result: negative

Carcinogenicity

Remarks : Not classifiable as a human carcinogen.

Further information

: Has a degreasing effect on the skin.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

OF008-K05 Fauch 300

Version: 1.9

Revision Date 15.06.2013

Print Date 29.12.2013

Harmful if swallowed.
If swallowed, severe burns in the oral cavity and throat as well as danger of perforation of the digestive tract and stomach.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish : no data available

Toxicity to fish
Potassium Hydroxide : LC50: 28.6 mg/l
Exposure time: 24 h
Species: Fish
Method: OECD Test Guideline 203

LC50: 80 mg/l
Exposure time: 96 h
Species: Gambusia affinis (Mosquito fish)

Ethanediol; Ethylene glycol : static test LC50: 8,050 mg/l
Exposure time: 96 h
Species: Pimephales promelas (Fathead minnow)

NOEC: 15,380 mg/l
Exposure time: 7 d
Species: Pimephales promelas (Fathead minnow)

Toxicity to daphnia and other aquatic invertebrates
Potassium Hydroxide : EC50: > 100 mg/l
Species: Daphnia
Method: OECD Test Guideline 202

Ethanediol; Ethylene glycol : EC50: > 100 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202

NOEC: 8,590 mg/l
Exposure time: 7 d
Species: Ceriodaphnia Dubia (water flea)

Toxicity to algae

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

OF008-K05 Fauch 300

Version: 1.9

Revision Date 15.06.2013

Print Date 29.12.2013

Ethanediol; Ethylene glycol : EC50: 6,500 - 75,000 mg/l
Exposure time: 96 h
Species: Pseudokirchneriella subcapitata

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not let product enter drains.
Do not dispose of with domestic refuse.
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Packaging : Do not dispose of with domestic refuse.
The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

Contaminated packaging : Dispose of in accordance with local regulations.

Waste Code : 070601 aqueous washing liquids and mother liquors

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

OF008-K05 Fauch 300

Version: 1.9

Revision Date 15.06.2013

Print Date 29.12.2013

SECTION 14: Transport information

ADR

UN number : 1814
UN proper shipping name : POTASSIUM HYDROXIDE SOLUTION
Transport hazard class(es) : 8
Packing group : II
Classification Code : C5
Hazard identification No : 80
Limited Quantity (LQ) Inner : 1.00 L
Packaging
Maximum quantity : 30.00 KG
Labels : 8
Tunnel restriction code : (E)
Environmentally hazardous : no

IATA

UN number : 1814
Description of the goods : Potassium hydroxide solution
Class : 8
Packing group : II
Labels : 8

IATA_C

Packing instruction (cargo aircraft) : 855
Packing instruction (LQ) : Y840
Maximum quantity : 30.00 L
Environmentally hazardous : no

IATA_P

Packing instruction (passenger aircraft) : 851
Packing instruction (LQ) : Y840
Maximum quantity : 1.00 L
Environmentally hazardous : no

IMDG

UN number : 1814
Description of the goods : POTASSIUM HYDROXIDE SOLUTION
Class : 8
Packing group : II
Labels : 8
EmS Number 1 : F-A
EmS Number 2 : S-B
Marine pollutant : no

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

OF008-K05 Fauch 300

Version: 1.9

Revision Date 15.06.2013

Print Date 29.12.2013

RID

UN number : 1814
Description of the goods : POTASSIUM HYDROXIDE SOLUTION
Transport hazard class(es) : 8
Packing group : II
Classification Code : C5
Hazard identification No : 80
Labels : 8
Limited Quantity (LQ) Inner : 1.00 L
Packaging
Maximum quantity : 30.00 KG

Environmentally hazardous : no

SECTION 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.

SECTION 16: Other information

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

R22 Harmful if swallowed.
R35 Causes severe burns.
R38 Irritating to skin.
R50 Very toxic to aquatic organisms.

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

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.

Full text of Notas referred to under section 3

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

OF008-K05 Fauch 300

Version: 1.9

Revision Date 15.06.2013

Print Date 29.12.2013

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.