

Version: 2.3

Revision Date: 23.10.2017

Print Date: 25.10.2017

## SECTION 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- ZN der Rockwood Specialties Group  
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  
Telephone : +49(0)2166 6009-176  
E-mail address : wolfgang.schaffers@chemetall.com

### 1.4 Emergency telephone number

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

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

|  |  |
|--|--|
| Acute toxicity, Category 4                                     | H302: Harmful if swallowed.  |
| Eye irritation, Category 2                                     | H319: Causes serious eye irritation.                                     |
| Specific target organ toxicity - repeated exposure, Category 2 | H373: May cause damage to organs through prolonged or repeated exposure. |
| Chronic aquatic toxicity, Category 2                           | H411: Toxic to aquatic life with long lasting effects.                   |

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Version: 2.3 Revision Date: 23.10.2017 Print Date: 25.10.2017

- Signal word : Warning
- Hazard statements : H302 Harmful if swallowed.  
 H319 Causes serious eye irritation.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H411 Toxic to aquatic life with long lasting effects.
- Precautionary statements : **Prevention:**  
 P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
 P273 Avoid release to the environment.  
 P280 Wear eye protection/ face protection.
- Response:**  
 P314 Get medical advice/ attention if you feel unwell.  
 P337 + P313 If eye irritation persists: Get medical advice/ attention.  
 P391 Collect spillage.

Hazardous components which must be listed on the label:  
 Ethanediol; Ethylene glycol

### 2.3 Other hazards

No data available  
 The information required is contained in this Material Safety Data Sheet.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Preparation based on inorganic salts

#### Hazardous components

| Chemical name               | CAS-No.<br>EC-No.<br>Registration number    | Classification<br>(REGULATION (EC)<br>No 1272/2008)   | Concentration<br>(% w/w) |
|-----------------------------|---|---|--------------------------|
| Ethanediol; Ethylene glycol | 107-21-1<br>203-473-3<br>01-2119456816-28   | Acute Tox. 4; H302<br>STOT RE 2; H373   | >= 80 - <= 100           |
| Copper dichloride           | 7447-39-4<br>231-210-2<br>01-2119970306-36  | Acute Tox. 4; H302<br>Acute Tox. 4; H312<br>Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 2;<br>H411 | >= 2.5 - < 10            |
| Ammonium chloride           | 12125-02-9<br>235-186-4<br>01-2119487950-27 | Acute Tox. 4; H302<br>Eye Irrit. 2; H319  | >= 2.5 - < 10            |

For explanation of abbreviations see section 16.

Version: 2.3

Revision Date: 23.10.2017

Print Date: 25.10.2017

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## **SECTION 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 : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
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.

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## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
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<sub>x</sub>)

### **5.3 Advice for firefighters**

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Version: 2.3

Revision Date: 23.10.2017

Print Date: 25.10.2017

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.

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## SECTION 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 material 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

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## SECTION 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.

### 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.

Version: 2.3

Revision Date: 23.10.2017

Print Date: 25.10.2017

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 use(s)

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

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components                  | CAS-No.   | Value type (Form of exposure) | Control parameters              | Basis      |
|-----------------------------|---|-------------------------------|---------------------------------|------------|
| Ethanediol; Ethylene glycol | 107-21-1  | TWA                           | 20 ppm<br>52 mg/m <sup>3</sup>  | 2000/39/EC |
| Further information         | Identifies the possibility of significant uptake through the skin, Indicative   |                               |                                 |            |
|                             |   | STEL                          | 40 ppm<br>104 mg/m <sup>3</sup> | 2000/39/EC |
| Further information         | Identifies the possibility of significant uptake through the skin, Indicative   |                               |                                 |            |
|                             |   | TWA (Vapour)                  | 20 ppm<br>52 mg/m <sup>3</sup>  | GB EH40    |
| Further information         | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |                               |                                 |            |
|                             |   | TWA (particles)               | 10 mg/m <sup>3</sup>            | GB EH40    |
| Further information         | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |                               |                                 |            |
|                             |   | STEL (Vapour)                 | 40 ppm<br>104 mg/m <sup>3</sup> | GB EH40    |
| Further information         | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |                               |                                 |            |

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name              | End Use | Exposure routes | Potential health effects   | Value                   |
|-----------------------------|---------|-----------------|----------------------------|-------------------------|
| Ethanediol; Ethylene glycol | Workers | Inhalation      | Acute local effects        | 35 mg/m <sup>3</sup>    |
|                             | Workers | Skin contact    | Long-term systemic effects | 106 mg/kg bw/day        |
| Ammonium chloride           | Workers | Inhalation      | Long-term systemic effects | 43.97 mg/m <sup>3</sup> |
|                             | Workers | Skin contact    | Long-term systemic effects | 128.9 mg/kg bw/day      |

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name              | Environmental Compartment | Value                        |
|-----------------------------|---------------------------|------------------------------|
| Ethanediol; Ethylene glycol | Fresh water               | 10 mg/l                      |
|                             | Marine water              | 1 mg/l                       |
|                             | Sewage treatment plant    | 199.5 mg/l                   |
|                             | Fresh water sediment      | 20.9 mg/kg dry weight (d.w.) |

Version: 2.3

Revision Date: 23.10.2017

Print Date: 25.10.2017

|                   |                        |                              |
|-------------------|------------------------|------------------------------|
|                   | Soil                   | 1.53 mg/kg dry weight (d.w.) |
| Ammonium chloride | Fresh water            | 0.25 mg/l                    |
|                   | Marine water           | 0.025 mg/l                   |
|                   | Sewage treatment plant | 13.1 mg/l                    |
|                   | Fresh water sediment   | 0.9 mg/kg dry weight (d.w.)  |
|                   | Marine sediment        | 0.09 mg/kg dry weight (d.w.) |
|                   | Soil                   | 50.7 mg/kg dry weight (d.w.) |

## 8.2 Exposure controls

### Engineering measures

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

### Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection

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

Remarks : The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this has to be observed.

Skin and body protection : Protective suit

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
 Recommended Filter type:  
 ABEK-filter  
 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.

Protective measures : Follow the skin protection plan.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : green

Odour : odourless

Odour Threshold : No data available

**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
**OF006-K05 Fauch 200**



Version: 2.3

Revision Date: 23.10.2017

Print Date: 25.10.2017

|  |   |   |
|--|---|---|
| pH                                     | : | No data available   |
| Melting point/freezing point           | : | No data available   |
| Boiling point/boiling range            | : | No data available   |
| Flash point                            | : | 123 °C  |
| Evaporation rate                       | : | No data available   |
| Flammability (solid, gas)              | : | No data available   |
| Upper explosion limit                  | : | Upper flammability limit<br>53 %(V)   |
| Lower explosion limit                  | : | lower flammability limit<br>3.2 %(V)  |
| Vapour pressure                        | : | 4 hPa (20 °C)<br>Information taken from reference works and the literature. |
| Relative vapour density                | : | No data available   |
| Relative density                       | : | No data available   |
| Density                                | : | 1.18 g/cm <sup>3</sup> (20 °C)<br>Method: DIN 51757                         |
| Solubility(ies)                        |   |   |
| Water solubility                       | : | completely soluble  |
| Solubility in other solvents           | : | No data available   |
| Partition coefficient: n-octanol/water | : | No data available   |
| Auto-ignition temperature              | : | 365 °C  |
| Decomposition temperature              | : | No data available   |
| Viscosity, dynamic                     | : | No data available   |
| Viscosity, kinematic                   | : | No data available   |
| Flow time                              | : | No data available   |
| Explosive properties                   | : | No data available   |
| Oxidizing properties                   | : | No data available   |

**9.2 Other information**

Other physico-chemical properties: This information is not available/not determined.

Version: 2.3

Revision Date: 23.10.2017

Print Date: 25.10.2017

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

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 (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg  
Method: Calculation method

#### Acute toxicity

##### Components:

##### **Ethanediol; Ethylene glycol:**

Acute oral toxicity : LD50 (Rat): > 300 - < 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 2.5 mg/l  
Exposure time: 6 h

Acute dermal toxicity : LD50 (Rabbit): 9,530 mg/kg

##### **Ammonium chloride:**

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

#### Skin corrosion/irritation

##### Product:

Remarks: 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**

**Product:**

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

### **Respiratory or skin sensitisation**

**Product:**

Remarks: This information is not available.

### **Germ cell mutagenicity**

**Product:**

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

### **Germ cell mutagenicity**

**Components:**

**Ethanediol; Ethylene glycol:**

Genotoxicity in vitro : Test Type: Ames test  
Result: negative

### **Carcinogenicity**

**Product:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

### **Reproductive toxicity**

**Product:**

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

### **STOT - single exposure**

**Product:**

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

### **STOT - repeated exposure**

**Product:**

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

### **Aspiration toxicity**

**Product:**

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

### **Further information**

**Product:**

Remarks: According to many years of experience, there are no known harmful effects when handled properly.

Version: 2.3

Revision Date: 23.10.2017

Print Date: 25.10.2017

Description of possible hazardous to health effects is based on experience and/or toxicological characteristics of several components.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### **Product:**

Ecotoxicology studies for the product are not available.

#### **Components:**

##### **Ethanediol; Ethylene glycol:**

- Toxicity to fish : LC50 (Pimephales promelas (Fathead minnow)): 72,860 mg/l  
Exposure time: 96 h  
Test Type: static test
- NOEC (Pimephales promelas (Fathead minnow)): 15,380 mg/l  
Exposure time: 7 d
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- NOEC (Ceriodaphnia dubia (water flea)): 8,590 mg/l  
Exposure time: 7 d
- Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 6,500 - 13,000 mg/l  
Exposure time: 96 h
- Toxicity to microorganisms : EC20 (activated sludge): > 1,995 mg/l  
Exposure time: 0.5 h  
Method: ISO 8192

##### **Ammonium chloride:**

- Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 209 mg/l  
Exposure time: 96 h
- LC50 (Oncorhynchus mykiss (rainbow trout)): 42.91 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 136.6 mg/l  
Exposure time: 48 h  
Test Type: static test
- EC50 (Ceriodaphnia dubia (water flea)): 98.5 mg/l  
Exposure time: 48 h  
Test Type: static test
- Toxicity to microorganisms : EC20 (activated sludge): ca. 850 mg/l  
Exposure time: 0.5 h  
Method: OECD Test Guideline 209

Version: 2.3

Revision Date: 23.10.2017

Print Date: 25.10.2017

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## 12.2 Persistence and degradability

### Product:

Biodegradability : Remarks: No data available

## 12.3 Bioaccumulative potential

### Product:

Bioaccumulation : Remarks: No data available

### Components:

#### **Ethandiol; Ethylene glycol:**

Partition coefficient: n-  
octanol/water : log Pow: -1.36 (23 °C)

## 12.4 Mobility in soil

### Product:

Mobility : Remarks: No data available

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : No data available.

## 12.6 Other adverse effects

### Product:

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

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## SECTION 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.

Contaminated packaging : Dispose of in accordance with local regulations.

Waste Code : 060313 : solid salts and solutions containing heavy metals

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## SECTION 14: Transport information

### 14.1 UN number

ADR : UN 3082

RID : UN 3082

IMDG : UN 3082

Version: 2.3

Revision Date: 23.10.2017

Print Date: 25.10.2017

**IATA** : UN 3082

#### 14.2 UN proper shipping name

**ADR** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(Copper dichloride)

**RID** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(Copper dichloride)

**IMDG** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(Copper dichloride)

**IATA** : Environmentally hazardous substance, liquid, n.o.s.  
(Copper dichloride)

#### 14.3 Transport hazard class(es)

**ADR** : 9

**RID** : 9

**IMDG** : 9

**IATA** : 9

#### 14.4 Packing group

**ADR**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (E)

**RID**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

**IMDG**  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Remarks : "IMDG-Code segregation group not applicable".

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous Dangerous Goods

**IATA (Passenger)**  
Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III

Version: 2.3

Revision Date: 23.10.2017

Print Date: 25.10.2017

Labels : Miscellaneous Dangerous Goods

#### 14.5 Environmental hazards

##### ADR

Environmentally hazardous : no

##### RID

Environmentally hazardous : no

##### IMDG

Marine pollutant : no

##### IATA (Passenger)

Marine pollutant : yes

##### IATA (Cargo)

Marine pollutant : yes

#### 14.6 Special precautions for user

Refer to protective measures listed in sections 7 and 8.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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### 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.

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### SECTION 16: Other information

#### Full text of H-Statements

H302 : Harmful if swallowed.  
H312 : Harmful in contact with skin.  
H315 : Causes skin irritation.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H373 : May cause damage to organs through prolonged or repeated exposure if swallowed.  
H400 : Very toxic to aquatic life.  
H411 : Toxic to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Acute : Acute aquatic toxicity  
Aquatic Chronic : Chronic aquatic toxicity  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
Skin Irrit. : Skin irritation  
STOT RE : Specific target organ toxicity - repeated exposure

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**OF006-K05 Fauch 200**



Version: 2.3

Revision Date: 23.10.2017

Print Date: 25.10.2017

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

## Further information

Other 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.

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