

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

### 1.1 Product identifier

Trade name : XB004-K60 hebro®HB-100 D

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

Use of the Sub-  
stance/Mixture : Decalcifying product for professional application in industry  
and trade

### 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

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Contact person product safety : Zentrale hebro chemie  
Telephone : +49(0)2166 6009-0  
E-mail address :

### 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)

Corrosive to metals, Category 1	H290: May be corrosive to metals.
Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin corrosion, Category 1B	H314: Causes severe skin burns and eye damage.

### 2.2 Label elements

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

Hazard pictograms :



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- Signal word : Danger
- Hazard statements : H290 May be corrosive to metals.  
 H302 Harmful if swallowed.  
 H314 Causes severe skin burns and eye damage.
- Supplemental Hazard Statements : EUH071 Corrosive to the respiratory tract.
- Precautionary statements : **Prevention:**  
 P262 Do not get in eyes, on skin, or on clothing.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- Response:**  
 P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER/doctor.  
 P390 Absorb spillage to prevent material damage.

Hazardous components which must be listed on the label:

Formic Acid <=75%

Orthophosphoric acid

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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 mineral acid

#### Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)
Formic Acid <=75%	64-18-6 200-579-1 01-2119491174-37	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1B; H314 Eye Dam. 1; H318	>= 10 - < 25
Orthophosphoric acid	7664-38-2	Met. Corr. 1; H290	>= 10 - < 25

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	231-633-2 01-2119485924-24	Acute Tox. 4; H302 Skin Corr. 1B; H314 Note B	
Hydrochloric acid	7647-01-0 231-595-7 01-2119484862-27	Met. Corr. 1; H290 Skin Corr. 1B; H314 STOT SE 3; H335 Note B	>= 5 - < 10
2-(2-Butoxyethoxy)ethanol; di-ethylene glycol monobutyl ether	112-34-5 203-961-6 01-2119475104-44	Eye Irrit. 2; H319	>= 2.5 - < 3

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- If inhaled : Move to fresh air.  
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 : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Call a physician immediately.  
If eye irritation persists, consult a specialist.
- If swallowed : Rinse mouth with water.  
Do NOT induce vomiting.  
If symptoms persist, call a physician.

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

- Symptoms : Erythema  
Blistering  
Pain
- Risks : corrosive effects

### 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 (CO<sub>2</sub>)  
Dry powder

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Water mist

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 dioxide (CO<sub>2</sub>)  
Carbon monoxide  
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 firefighting if necessary.

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.

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## 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.  
Avoid contact with skin, eyes and clothing.  
Refer to protective measures listed in sections 7 and 8.

### 6.2 Environmental precautions

Environmental precautions : 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, 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).  
Keep up mechanically and dispose according to local regulations.  
Neutralize with lime milk or soda and flush with plenty of water.  
Contaminated surfaces will be extremely slippery.

### 6.4 Reference to other sections

See chapter  
8  
and

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

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

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 : Keep only in the original container. Plastic container Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Further information on storage conditions : Protect from frost.

Advice on common storage : Incompatible with bases.

### 7.3 Specific end use(s)

Specific use(s) : Decalcifying product for professional application in industry and trade

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Formic Acid	64-18-6	TWA	5 ppm 9 mg/m <sup>3</sup>	2006/15/EC
Further information	Indicative			
		TWA	5 ppm 9.6 mg/m <sup>3</sup>	GB EH40
Further information	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
Orthophosphoric acid	7664-38-2	TWA	1 mg/m <sup>3</sup>	2000/39/EC
Further information	Indicative			
		STEL	2 mg/m <sup>3</sup>	2000/39/EC
Further information	Indicative			
		TWA	1 mg/m <sup>3</sup>	GB EH40
		STEL	2 mg/m <sup>3</sup>	GB EH40
Hydrochloric acid	7647-01-0	TWA	5 ppm 8 mg/m <sup>3</sup>	2000/39/EC
Further information	Indicative			
		STEL	10 ppm 15 mg/m <sup>3</sup>	2000/39/EC

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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Further information	Indicative			
		TWA (Gas and aerosol mists)	1 ppm 2 mg/m <sup>3</sup>	GB EH40
		STEL (Gas and aerosol mists)	5 ppm 8 mg/m <sup>3</sup>	GB EH40
2-(2-Butoxyethoxy)ethanol; diethylene glycol monobutyl ether	112-34-5	TWA	10 ppm 67.5 mg/m <sup>3</sup>	2006/15/EC
Further information	Indicative			
		STEL	15 ppm 101.2 mg/m <sup>3</sup>	2006/15/EC
Further information	Indicative			
		TWA	10 ppm 67.5 mg/m <sup>3</sup>	GB EH40
		STEL	15 ppm 101.2 mg/m <sup>3</sup>	GB EH40

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Formic Acid <=75%	Workers	Inhalation	Long-term local effects	9.5 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	9.5 mg/m <sup>3</sup>
Orthophosphoric acid	Workers	Inhalation	Long-term local effects	2.92 mg/m <sup>3</sup>
Hydrochloric acid	Workers	Inhalation	Long-term local effects	8 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	15 mg/m <sup>3</sup>
2-(2-Butoxyethoxy)ethanol; diethylene glycol monobutyl ether	Workers	Inhalation	Long-term systemic effects	67.5 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	67.5 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	101.2 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	20 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Formic Acid <=75%	Fresh water	2 mg/l
	Marine water	0.2 mg/l
	Sewage treatment plant	7.2 mg/l
	Fresh water sediment	13.4 mg/kg
	Marine sediment	1.34 mg/kg
	Soil	1.5 mg/kg
Hydrochloric acid	Fresh water	36 µg/L
	Marine water	36 µg/L
	Sewage treatment plant	36 µg/L
2-(2-Butoxyethoxy)ethanol; diethylene glycol monobutyl ether	Fresh water	1 mg/l
	Marine water	0.4 mg/l
	Estuary sediment	4 mg/l

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## 8.2 Exposure controls

### Personal protective equipment

- Eye protection : Face-shield  
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 : Long sleeved clothing  
Chemical resistant apron
- Respiratory protection : Use respirator when performing operations involving potential exposure to vapour of the product.
- Protective measures : Follow the skin protection plan.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance : liquid
- Colour : colourless
- Odour : stinging
- Odour Threshold : No data available
- pH : 1.8 (20 °C)  
Concentration: 10 g/l
- Melting point/freezing point : No data available
- Boiling point/boiling range : 100 °C  
Method: DIN 51751
- Flash point : > 100 °C
- Evaporation rate : No data available
- Flammability (solid, gas) : No data available
- Upper explosion limit : No data available
- Lower explosion limit : 0.8 %(V)
- Vapour pressure : 28 hPa (20 °C)  
Information taken from reference works and the literature.

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Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	1.17 g/cm <sup>3</sup> (20 °C) Method: DIN 51757
Solubility(ies)		
Water solubility	:	1,000 g/l completely soluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	500 °C
Decomposition temperature	:	No data available
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Flow time	:	No data available
Explosive properties	:	Vapours may form explosive mixture with air.
Oxidizing properties	:	No data available

## 9.2 Other information

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

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

### 10.4 Conditions to avoid

Conditions to avoid : Product is stable under appropriate usage.

### 10.5 Incompatible materials

Materials to avoid : Bases

### 10.6 Hazardous decomposition products

No data available



## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate: 1,708 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

#### Acute toxicity

##### Components:

##### **Formic Acid <=75%:**

Acute oral toxicity : LD50 (Rat): 730 mg/kg  
Method: OECD Test Guideline 401

##### **Orthophosphoric acid:**

Acute oral toxicity : LD50 (Rat): > 300 mg/kg  
Method: OECD Test Guideline 423

##### **Hydrochloric acid:**

Acute dermal toxicity : LD50 (Rabbit): > 5,010 mg/kg

##### **2-(2-Butoxyethoxy)ethanol; diethylene glycol monobutyl ether:**

Acute oral toxicity : LD50 (Rat): 3,384 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 2,700 mg/kg

#### Skin corrosion/irritation

##### Product:

Remarks: Causes severe burns.

#### Serious eye damage/eye irritation

##### Product:

Remarks: Causes serious eye 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:**

**Hydrochloric acid:**

Genotoxicity in vitro : Test Type: Ames test  
Remarks: In vitro tests did not show mutagenic effects

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

### **Carcinogenicity**

**Product:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

### **Carcinogenicity**

**Components:**

**Hydrochloric acid:**

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

### **Reproductive toxicity**

**Product:**

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

### **Reproductive toxicity**

**Components:**

**Hydrochloric acid:**

Effects on fertility :  
Remarks: Animal testing did not show any effects on fertility.

Effects on foetal development : Remarks: This information is not available.

Reproductive toxicity - Assessment : Fertility classification not possible from current data.  
Embryotoxicity classification not possible from current data.

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

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## SECTION 12: Ecological information

### 12.1 Toxicity

**Product:**

Ecotoxicology studies for the product are not available.

**Components:**

**Formic Acid <=75%:**

- |   |   |  |
|---|---|--|
| Toxicity to fish                                    | : | LC50 (Leuciscus idus (Golden orfe)): > 46 - < 100 mg/l<br>Exposure time: 96 h<br>Test Type: static test  |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 34.2 mg/l<br>Exposure time: 48 h<br><br>NOEC (Daphnia magna (Water flea)): >= 102 mg/l<br>Exposure time: 21 d<br>Test Type: static test   |
| Toxicity to algae                                   | : | EC50 (Selenastrum capricornutum (green algae)): 32.64 mg/l<br>Exposure time: 72 h<br>Test Type: static test  |
| Toxicity to microorganisms                          | : | EC50 (Pseudomonas putida): 46.7 mg/l<br>Exposure time: 17 h  |
| <b>Orthophosphoric acid:</b>                        |   |  |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 100 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202  |
| Toxicity to algae                                   | : | EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br><br>NOEC (Desmodesmus subspicatus (green algae)): 100 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201 |

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**Hydrochloric acid:**

- Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 20.5 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.45 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Chlorella vulgaris (Fresh water algae)): 0.73 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201
- Toxicity to microorganisms : EC50 (activated sludge): 0.23 mg/l  
Method: OECD Test Guideline 209

**2-(2-Butoxyethoxy)ethanol; diethylene glycol monobutyl ether:**

- Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 2,750 mg/l  
Exposure time: 48 h  
Method: DIN 38412
- LC50 (Lepomis macrochirus (Bluegill sunfish)): 1,300 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 2,850 mg/l  
Exposure time: 48 h
- Toxicity to algae : NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 201

**12.2 Persistence and degradability**

**Product:**

- Biodegradability : Remarks: No data available

**Components:**

**Formic Acid <=75%:**

- Biodegradability : Biodegradation: 98 %  
Exposure time: 14 d  
Method: OECD Test Guideline 301 E  
Remarks: Readily biodegradable
- Biochemical Oxygen Demand (BOD) : 86 mg/g
- Chemical Oxygen Demand (COD) : 348 mg/g

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### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: No data available

### 12.4 Mobility in soil

**Product:**

Mobility : Remarks: No data available

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 12.6 Other adverse effects

**Product:**

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

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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 : 060106 : other acids

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## SECTION 14: Transport information

### 14.1 UN number

ADR : UN 1760

RID : UN 1760

IMDG : UN 1760

IATA : UN 1760

### 14.2 UN proper shipping name

ADR : CORROSIVE LIQUID, N.O.S.  
(Formic Acid, Hydrochloric acid)

RID : CORROSIVE LIQUID, N.O.S.  
(Formic Acid, Hydrochloric acid)

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**IMDG** : CORROSIVE LIQUID, N.O.S.  
(Formic Acid, Hydrochloric acid)

**IATA** : Corrosive liquid, n.o.s.  
(Formic Acid, Hydrochloric acid)

## 14.3 Transport hazard class(es)

**ADR** : 8

**RID** : 8

**IMDG** : 8

**IATA** : 8

## 14.4 Packing group

### ADR

Packing group : II  
Classification Code : C9  
Hazard Identification Number : 80  
Labels : 8  
Tunnel restriction code : (E)

### RID

Packing group : II  
Classification Code : C9  
Hazard Identification Number : 80  
Labels : 8

### IMDG

Packing group : II  
Labels : 8  
EmS Code : F-A, S-B  
Remarks : Acids, Clear of living quarters.

### IATA (Cargo)

Packing instruction (cargo aircraft) : 855  
Packing instruction (LQ) : Y840  
Packing group : II  
Labels : Corrosives

### IATA (Passenger)

Packing instruction (passenger aircraft) : 851  
Packing instruction (LQ) : Y840  
Packing group : II  
Labels : Corrosives

## 14.5 Environmental hazards

### ADR

Environmentally hazardous : no

### RID

Environmentally hazardous : no

### IMDG

Marine pollutant : no

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#### 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

H290 : May be corrosive to metals.  
H302 : Harmful if swallowed.  
H314 : Causes severe skin burns and eye damage.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H332 : Harmful if inhaled.  
H335 : May cause respiratory irritation.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
Met. Corr. : Corrosive to metals  
Skin Corr. : Skin corrosion  
STOT SE : Specific target organ toxicity - single exposure

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

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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.

GB / EN