according to Regulation (EC) No. 1907/2006

## XA003-K30 hebro®nol DR



Version: 2.5 Revision Date: 20.04.2020 Print Date: 21.04.2020

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

1.1 Product identifier

Trade name : XA003-K30 hebro®nol DR

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

Use of the Sub: : Cleaner for professional application in industry and trade

stance/Mixture

Contact person Telephone

Telefax

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 : Zentrale hebro chemie : +49 (0) 2166 6009-0 : +49 (0) 2166 6009-99

Contact person product safety
Telephone
: +49(0)2166 6009-311
E-mail address
: msds.de@hebro-chemie.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 (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1 H290: May be corrosive to metals.

Skin corrosion, Category 1A H314: Causes severe skin burns and eye damage.

Short-term (acute) aquatic hazard, Cate-

gory 1

H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, Cat-

egory 2

H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

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

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Hazard pictograms





Signal word : Danger

Hazard statements : H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P262 Do not get in eyes, on skin, or on clothing.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection.

Response:

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.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Hazardous components which must be listed on the label:

Potassium Hydroxide

#### 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 : Cleaner of anionic and nonionic tensides, anorganic salts and

corrosion protection

#### **Hazardous components**

Chemical name	EC-No.	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)
Potassium Hydroxide	215-181-3	Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1A; H314	>= 5 - < 10

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Quaternary ammonium compound, alkyl (C12-C16) dimethyl benzyl ammonium chloride	Not Assigned 01-2119965180-41	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor Acute aquatic toxicity:10 M-Factor Chronic aquatic toxicity:1	>= 3 - < 5
Tetrapotassium pyrophosphate	7320-34-5 230-785-7 01-2119489369-18	Eye Irrit. 2; H319	>= 3 - < 10
Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-[(dodecylimino)di- 2,1-ethanediyl]bis(.omega hydroxy)-	31017-83-1	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 3; H412	>= 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 imme-

diately with plenty of water, also under the eyelids, for at least

15 minutes.

Call a physician immediately.

If swallowed : Rinse mouth with water.

Never give anything by mouth to an unconscious person.

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

according to Regulation (EC) No. 1907/2006

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#### 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

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 condi-

tions

Exposure to decomposition products may be a hazard to

health.

5.3 Advice for firefighters

Special protective equipment :

for firefighters

In the event of fire and/or explosion do not breathe fumes.

Wear self-contained breathing apparatus for firefighting if nec-

essary.

Further information : 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 protec-

tion.

6.2 Environmental precautions

Environmental precautions : Inform the relevant authorities if it enters sewers, aquatic envi-

ronment 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 in suitable, closed containers for disposal.

according to Regulation (EC) No. 1907/2006

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#### 6.4 Reference to other sections

For further information see Section 8 of the safety data sheet.

For disposal considerations see section 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 stor-

age conditions

Keep only in the original container in a cool, well-ventilated

place.

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

7.3 Specific end use(s)

Specific use(s) : Cleaner 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	Control parameters	Basis
		of exposure)		
Potassium Hydrox-	1310-58-3	STEL	2 mg/m3	GB EH40
ide				

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Potassium Hydroxide	Workers	Inhalation	Long-term local ef- fects	1 mg/m3
Quaternary ammonium compound, alkyl (C12-C16) dimethyl benzyl ammonium chloride	Workers	Inhalation	Long-term systemic effects	3.96 mg/m3
	Workers	Skin contact	Long-term systemic effects	5.7 mg/kg bw/day
Tetrapotassium pyro- phosphate	Workers	Inhalation	Long-term systemic effects	2.79 mg/m3

according to Regulation (EC) No. 1907/2006

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

Substance name	Environmental Compartment	Value
Quaternary ammonium com-	Fresh water	0.0009 mg/l
pound, alkyl (C12-C16) dimethyl		
benzyl ammonium chloride		
	Marine water	0.00096 mg/l
	Sewage treatment plant	0.4 mg/l
	Intermittent use/release	0.00016 mg/l
	Fresh water sediment	12.27 mg/kg
	Marine sediment	13.09 mg/kg
	Soil	7 mg/kg
Tetrapotassium pyrophosphate	Fresh water	0.05 mg/l
	Marine water	0.005 mg/l
	Sewage treatment plant	50 mg/l

#### 8.2 Exposure controls

Personal protective equipment

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

Face-shield

Hand protection

Material : Chemical resistant gloves made of butyl rubber or nitrile rub-

ber 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

Chemical resistant protective clothing according to DIN EN

13034 (Type 6)

Respiratory protection : Breathing apparatus needed only when aerosol or mist is

formed.

Filter type : ABEK-filter

Protective measures : Follow the skin protection plan.

Wash hands before breaks and at the end of workday.

# **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : yellow

Odour : mild

Odour Threshold : No data available

according to Regulation (EC) No. 1907/2006

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pH : 12 (20 °C)

Concentration: 10 g/l

Melting point/freezing point : No data available

Boiling point/boiling range : > 100 °C

Method: DIN 51751

Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : 23 hPa (20 °C)

Information taken from reference works and the literature.

Relative vapour density : No data available

Relative density : No data available

Density : 1.09 g/cm³ (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 : No data available

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.

according to Regulation (EC) No. 1907/2006

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# **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical stability

Stable at normal ambient temperature and pressure.

#### 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 (com-

bustible).

## 10.6 Hazardous decomposition products

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

## **Acute toxicity**

Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

## **Acute toxicity**

#### **Components:**

Potassium Hydroxide:

Acute oral toxicity : LD50 (Rat): 365 mg/kg

# Quaternary ammonium compound, alkyl (C12-C16) dimethyl benzyl ammonium chloride:

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

Method: OECD Test Guideline 401

## **Tetrapotassium pyrophosphate:**

Acute oral toxicity : LD50 (Rat, male): 2,440 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

according to Regulation (EC) No. 1907/2006

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Method: OECD Test Guideline 402

Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-[(dodecylimino)di-2,1-ethanediyl]bis(.omega.-

hydroxy)-:

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

Method: OECD Test Guideline 401

Skin corrosion/irritation

**Product:** 

Remarks: Causes severe burns.

Serious eye damage/eye irritation

**Product:** 

Remarks: Causes serious eye damage.

Respiratory or skin sensitisation

**Product:** 

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

Germ cell mutagenicity

**Product:** 

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

Germ cell mutagenicity

**Components:** 

Quaternary ammonium compound, alkyl (C12-C16) dimethyl benzyl ammonium chloride:

Genotoxicity in vitro : Test Type: Ames test

Method: OECD Test Guideline 471

Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse

Method: OECD Test Guideline 474

Result: negative

Carcinogenicity

Product:

Carcinogenicity - Assess-

ment

Not classifiable as a human carcinogen.

Reproductive toxicity

**Product:** 

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

according to Regulation (EC) No. 1907/2006

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#### 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.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

## **Product:**

Ecotoxicology studies for the product are not available.

#### **Components:**

## Potassium Hydroxide:

Toxicity to fish : LC50 (Fish): 28.6 mg/l

Exposure time: 24 h

Method: OECD Test Guideline 203

LC50 (Gambusia affinis (Mosquito fish)): 80 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia (water flea)): > 100 mg/l

Method: OECD Test Guideline 202

# Quaternary ammonium compound, alkyl (C12-C16) dimethyl benzyl ammonium chloride:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 0.1 - 1 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 0.01 - 0.1 mg/l

Exposure time: 48 h

Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): > 0.01

- 0.1 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): >

0.001 - 0.01 mg/l Exposure time: 72 h

Method: OECD Test Guideline 201

M-Factor (Short-term (acute) :

aquatic hazard)

10

Toxicity to daphnia and other : NOEC: > 0.01 - 0.1 mg/l

according to Regulation (EC) No. 1907/2006

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aquatic invertebrates (Chron-

ic toxicity)

Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

M-Factor (Long-term (chron- :

ic) aquatic hazard)

Tetrapotassium pyrophosphate:

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

> Exposure time: 96 h Test Type: semi-static test

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

(Desmodesmus subspicatus): > 100 mg/l Toxicity to algae

> Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201

Toxicity to microorganisms EC50 (Bacteria): > 1,000 mg/l

Exposure time: 3 h

Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-[(dodecylimino)di-2,1-ethanediyl]bis(.omega.-

hydroxy)-:

LC50 (Brachydanio rerio (Zebra danio)): > 0.1 - 1 mg/l Toxicity to fish

> Exposure time: 96 h Test Type: semi-static test

Method: OECD Test Guideline 203

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae EC50 (Desmodesmus subspicatus): > 0.1 - 1 mg/l

> Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

Toxicity to microorganisms : EC10 (Pseudomonas putida): > 10,000 mg/l

12.2 Persistence and degradability

**Product:** 

Remarks: No data available Biodegradability

**Components:** 

Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-[(dodecylimino)di-2,1-ethanediyl]bis(.omega.-

hydroxy)-:

according to Regulation (EC) No. 1907/2006

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Biodegradability : Biodegradation: > 60 %

Exposure time: 28 d

Method: OECD Test Guideline 301B Remarks: Readily biodegradable

This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a

detergent manufacturer.

## 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 infor-

mation

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.

Contaminated packaging : Dispose of in accordance with local regulations.

Waste Code : 07 06 01 : aqueous washing liquids and mother liquors

## **SECTION 14: Transport information**

#### 14.1 UN number

**ADR** : UN 1760

according to Regulation (EC) No. 1907/2006

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RID **UN 1760 IMDG UN 1760** IATA **UN 1760** 

14.2 UN proper shipping name

**ADR** CORROSIVE LIQUID, N.O.S.

(Potassium Hydroxide, Quaternary ammonium compound,

alkyl (C12-C16) dimethyl benzyl ammonium chloride)

**RID** CORROSIVE LIQUID, N.O.S.

(Potassium Hydroxide, Quaternary ammonium compound,

alkyl (C12-C16) dimethyl benzyl ammonium chloride)

CORROSIVE LIQUID, N.O.S. **IMDG** 

(Potassium Hydroxide, Quaternary ammonium compound,

alkyl (C12-C16) dimethyl benzyl ammonium chloride)

IATA Corrosive liquid, n.o.s.

(Potassium Hydroxide, Quaternary ammonium compound,

alkyl (C12-C16) dimethyl benzyl ammonium chloride)

14.3 Transport hazard class(es)

**ADR** 8 **RID** 8 **IMDG** 8 **IATA** 8

14.4 Packing group

**ADR** 

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

**RID** 

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

**IMDG** 

Packing group Ш Labels 8

EmS Code F-A, S-B

Remarks Alkalis, Clear of living quarters.

855

IATA (Cargo)

Packing instruction (cargo

aircraft)

Packing instruction (LQ) Y840 Packing group Ш

Labels Corrosives

IATA (Passenger)

according to Regulation (EC) No. 1907/2006

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Packing instruction (passen- : 851

ger aircraft)

Packing instruction (LQ) : Y840 Packing group : II

Labels : Corrosives

#### 14.5 Environmental hazards

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

**IMDG** 

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.

## **SECTION 15: Regulatory information**

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

Volatile organic compounds : Directive 1999/13/EC on the limitation of emissions of volatile

organic compounds Remarks: no VOC duties

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 imple-

ment 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 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. H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.
 H412 : Harmful to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation

according to Regulation (EC) No. 1907/2006

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Met. Corr. : Corrosive to metals Skin Corr. : Skin corrosion

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; SVHC - Substance of Very High Concern; 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