according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

# XA005-K60 hebro®HB-300 RH

Version: 1.7 Revision Date 09.11.2013 Print Date 24.12.2014

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

#### 1.1 Product identifier

Trade name : XA005-K60 hebro®HB-300 RH

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

Use of the Sub- : Cleaner (disinfection) for professional application in industry

stance/Mixture 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

Contact person : Wolfgang Schaffers
Telephone : +49 (0) 2166 6009-0
Telefax : +49 (0) 2166 6009-99

Contact person product safety

E-mail address

Abteilung Produktsicherheit

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 R34: Causes burns.

R20/21/22: Harmful by inhalation, in contact with

skin and if swallowed.

#### 2.2 Label elements

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

Hazard pictograms



according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

# XA005-K60 hebro®HB-300 RH

Version: 1.7 Revision Date 09.11.2013 Print Date 24.12.2014

Corrosive

R-phrase(s) : R34 Causes burns.

R20/21/22 Harmful by inhalation, in contact with skin

and if swallowed.

S-phrase(s) : S26 In case of contact with eyes, rinse immedi-

ately with plenty of water and seek medical

advice.

S36/37/39 Wear suitable protective clothing, gloves

and eye/face protection.

S45 In case of accident or if you feel unwell,

seek medical advice immediately (show

the label where possible).

S60 This material and its container must be

disposed of as hazardous waste. Use only in well-ventilated areas.

Hazardous components which must be listed on the label:

1310-58-3 Potassium Hydroxide
5064-31-3 Trisodium-nitrilotriacetate
1310-58-3 Potassium Hydroxide

### 2.3 Other hazards

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

S51

# SECTION 3: Composition/information on ingredients

#### 3.1 Substances

not applicable

#### 3.2 Mixtures

Chemical nature : Cleaner of anionic and nonionic tensides, anorganic salts and

corrosion protection

#### **Hazardous components**

Chemical Name	CAS-No. EC-No. Registration num- ber	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	>= 2.5 - < 5

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

# XA005-K60 hebro®HB-300 RH

Version: 1.7 Revision Date 09.11.2013 Print Date 24.12.2014

		T		
2-Butoxyethanol	111-76-2 203-905-0 01-2119475108-36	Xn; R20/21/22 Xi; R36/38	Acute Tox. 4; H332 Acute Tox. 4; H312 Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315	>= 2.5 - < 10
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	68081-81-2 268-356-1	Xn; R22 Xi; R38-R41	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 2.5 - < 5

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.

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

# XA005-K60 hebro®HB-300 RH

Version: 1.7 Revision Date 09.11.2013 Print Date 24.12.2014

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

: Erythema **Symptoms** 

Blistering Pain

: corrosive effects Risks

### 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

: Alcohol-resistant foam Suitable extinguishing media

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 condi-

tions.

Exposure to decomposition products may be a hazard to

health.

May react strongly with amphoter metals (aluminium, lead,

zinc, ..): forms Hydrogen (Combustible).

### 5.3 Advice for firefighters

for firefighters

Special protective equipment : Wear self contained breathing apparatus for fire fighting if

necessary.

Use only breathing apparatus wich are resistant against caus-

tic compounds.

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

# XA005-K60 hebro®HB-300 RH

Version: 1.7 Revision Date 09.11.2013 Print Date 24.12.2014

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 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 materials 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).

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 stor-

age conditions

: Avoid contact with amphoteric metals (e.g. aluminium, lead,

zinc).

Protect from frost.

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

# XA005-K60 hebro®HB-300 RH

Version: 1.7 Revision Date 09.11.2013 Print Date 24.12.2014

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

7.3 Specific end uses

Specific use(s) : Cleaner (disinfection) for professional application in industry

and trade

### SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Components	CAS-No.	Value	Control pa- rameters	Update	Basis		
Potassium Hydroxide	1310-58-3	STEL	2 mg/m3	2005-04-06	GB EH40		
2- Butoxy- ethanol	111-76-2	TWA	20 ppm 98 mg/m3	2000-06-16	2000/39/EC		
Further infor- mation	skin: Identifies the possibility of significant uptake through the skin Indicative						
	111-76-2	STEL	50 ppm 246 mg/m3	2000-06-16	2000/39/EC		
Further infor- mation	: skin: Ident Indicative	skin: Identifies the possibility of significant uptake through the skin Indicative					
	111-76-2	TWA	25 ppm	2005-04-06	GB EH40		
Further infor- mation	: Sk: Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.						
	111-76-2	STEL	50 ppm	2005-04-06	GB EH40		
Further infor- mation		Sk: Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.					

DNEL/DMEL

Potassium Hydroxide : End Use: DNEL, Workers

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

# XA005-K60 hebro®HB-300 RH

Version: 1.7 Revision Date 09.11.2013 Print Date 24.12.2014

Exposure routes: Inhalation

Potential health effects: Long-term local effects

Value: 1 mg/m3

2-Butoxyethanol : End Use: DNEL, Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 98 mg/m3

### 8.2 Exposure controls

#### Personal protective equipment

Respiratory protection : not required

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

ber 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 envi-

ronment or soil.

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

### 9.1 Information on basic physical and chemical properties

Appearance : liquid
Colour : yellow

Odour : odourless

pH : 9.7

at 10 g/l

20 °C

Boiling point/boiling range : 100 °C

Method: DIN 51751

Vapour pressure : 23 hPa

at 20 °C

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

# XA005-K60 hebro®HB-300 RH

Version: 1.7 Revision Date 09.11.2013 Print Date 24.12.2014

Information taken from reference works and the literature.

Density : 1.15 g/cm3

at 20 °C

Method: DIN 51757

Water solubility : completely soluble

9.2 Other information

Explosivity : no data available

Directive 1999/13/EC on the

limitation of emissions of volatile organic compounds

: no VOC duties

### **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 (com-

bustible).

#### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire

: Carbon monoxide Carbon dioxide (CO2)

conditions.

Hydrogen

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

# XA005-K60 hebro®HB-300 RH

Version: 1.7 Revision Date 09.11.2013 Print Date 24.12.2014

### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

Acute oral toxicity

Potassium Hydroxide : LD50: 365 mg/kg

Species: rat

2-Butoxyethanol : LD50: 1,746 mg/kg

Species: rat

Benzenesulfonic acid, mono- : LD50: 438 mg/kg

C10-16-alkyl derivs., sodium

Species: rat

salts

Acute dermal toxicity

2-Butoxyethanol : LD50: > 2,000 mg/kg

Species: guinea pig

Method: OECD Test Guideline 402

Skin corrosion/irritation

Skin irritation : Causes burns.

Serious eye damage/eye irritation

: Causes burns. Eye irritation

Respiratory or skin sensitisation

: This information is not available. Sensitisation

Carcinogenicity

Remarks : Not classifiable as a human carcinogen.

: Has a degreasing effect on the skin. **Further information** 

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

according to Regulation (EC) No. 1907/2006



# XA005-K60 hebro®HB-300 RH

Version: 1.7 Revision Date 09.11.2013 Print Date 24.12.2014

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)

2-Butoxyethanol : LC50: 1,490 mg/l

Exposure time: 96 h

Species: Lepomis macrochirus (Bluegill sunfish)

Toxicity to daphnia and other aquatic invertebrates Potassium Hydroxide : EC50: > 100 mg/l

Species: Daphnia

Method: OECD Test Guideline 202

2-Butoxyethanol : EC50: 1,720 mg/l

Exposure time: 24 h Species: Daphnia

Toxicity to algae

2-Butoxyethanol : Cell multiplication inhibition test EC0: 900 mg/l

Exposure time: 168 h

Species: Scenedesmus quadricauda (Green algae)

Toxicity to bacteria

2-Butoxyethanol : EC0: 700 mg/l

Exposure time: 16 h

Species: Pseudomonas putida

### 12.2 Persistence and degradability

Biodegradability : no data available

Biodegradability

2-Butoxyethanol : 100 %

Testing period: 28 d

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

# XA005-K60 hebro®HB-300 RH

Version: 1.7 Revision Date 09.11.2013 Print Date 24.12.2014

Readily biodegradable

Zahn-Wellens Test; EG 88/302

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 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.

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

### **SECTION 14: Transport information**

ADR

UN number : 1760

UN proper shipping name : CORROSIVE LIQUID, N.O.S. Potassium Hydroxide

Transport hazard class(es) : 8
Packing group : III
Classification Code : C9
Hazard Identification Number : 80
Limited Quantity (LQ) Inner : 5.00 L

Packaging

11 / 13

- EN

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

# XA005-K60 hebro®HB-300 RH

Version: 1.7 Revision Date 09.11.2013 Print Date 24.12.2014

Maximum quantity : 30.00 KG

Labels : 8
Tunnel restriction code : (E)
Environmentally hazardous : no

**IATA** 

UN number : 1760

Description of the goods : Corrosive liquid, n.o.s. Potassium Hydroxide

Class : 8
Packing group : III
Labels : 8

IATA C

Packing instruction (cargo : 856

aircraft)

Packing instruction (LQ) : Y841
Maximum quantity : 60.00 L
Environmentally hazardous : no

IATA P

Packing instruction (passen: 852

ger aircraft)

Packing instruction (LQ) : Y841
Maximum quantity : 5.00 L
Environmentally hazardous : no

**IMDG** 

UN number : 1760

Description of the goods : CORROSIVE LIQUID, N.O.S. Potassium Hydroxide

Class : 8
Packing group : III
Labels : 8
EmS Number 1 : F-A
EmS Number 2 : S-B
Marine pollutant : no

**RID** 

UN number : 1760

Description of the goods : CORROSIVE LIQUID, N.O.S. Potassium Hydroxide

Transport hazard class(es) : 8
Packing group : III
Classification Code : C9
Hazard Identification Number : 80
Labels : 8
Limited Quantity (LQ) Inner : 5.00 L

Packaging

Maximum quantity : 30.00 KG

Environmentally hazardous : no

12 / 13

- EN

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

# XA005-K60 hebro®HB-300 RH

Version: 1.7 Revision Date 09.11.2013 Print Date 24.12.2014

#### **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 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 R-phrases referred to under sections 2 and 3

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R22 Harmful if swallowed.

R34 Causes burns.

R35 Causes severe burns.
R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

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

H290 May be corrosive to metals. H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

#### Full text of Notas referred to under section 3

#### **Further information**

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

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