according to Regulation (EC) No. 1907/2006

A036-K10 hebro®nol AR



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

1.1 Product identifier

Trade name : A036-K10 hebro@nol AR

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)

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

Serious eye damage, Category 1 H318: Causes serious eye damage.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

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Precautionary statements : Prevention:

P280 Wear protective gloves/ protective clothing/ eye protection/

tion/ face protection/ hearing protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do

NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immedi-

ately all contaminated clothing. Rinse skin with water.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a

POISON CENTER/ doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER/ doctor.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown acute oral toxicity: 100 %

The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 100 %

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 100 %

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 54.45 %

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Alkaline cleaner based on lye and silicates

Components

Chemical name	CAS-No.	Classification	Concentration		
	EC-No.		(% w/w)		
	Index-No.				
	Registration number				
Substances with a workplace exposure limit :					
Potassium Hydroxide	1310-58-3		>= 25 - < 50		
	215-181-3				
	01-2119487136-33	specific concentration			
		limit			
		Eye Irrit. 2; H319			
		0.5 - < 2 %			
		Skin Corr. 1A; H314			

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>= 5 %
Skin Corr. 1B; H314
2 - < 5 %
Skin Irrit. 2; H315
0.5 - < 2 %
Eye Irrit. 2; H319
0.5 - < 2 %

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

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

according to Regulation (EC) No. 1907/2006

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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

Contain spillage, soak up with non-combustible absorbent Methods for cleaning up

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.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8., 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

fire and explosion

Advice on protection against : 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.

according to Regulation (EC) No. 1907/2006

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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.

Further information on stor-

age stability

Keep at temperatures between 5°C and 40°C.

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 ef-	Value
			fects	
Potassium Hydroxide	Workers	Inhalation	Long-term local ef-	1 mg/m3
			fects	
Sodium metasilicate	Workers	Inhalation	Long-term systemic	6.22 mg/m3
pentahydrate			effects	
	Workers	Skin contact	Long-term systemic	1.49 mg/kg
			effects	bw/day

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

Substance name	Environmental Compartment	Value
Sodium metasilicate pentahy-	Fresh water	7.5 mg/l
drate		
	Marine water	1 mg/l
	Sewage treatment plant	1000 mg/l

8.2 Exposure controls

Personal protective equipment

Eye/face 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.

according to Regulation (EC) No. 1907/2006

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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

Physical state : liquid

Colour : colourless

Odour : odourless

: not determined

Boiling point/boiling range : > 100 °C

Method: DIN 51751

Upper explosion limit / Upper

flammability limit

not determined

Lower explosion limit / Lower :

flammability limit

not determined

Flash point : > 99 °C

Auto-ignition temperature : not determined

pH : 13 (20 °C)

Concentration: 10 g/l

Viscosity

Viscosity, kinematic : similar to water

Flow time : > 100 sec.

Cross section: 6 mm

Solubility(ies)

Water solubility : 1,000 g/l completely soluble

Partition coefficient: n-

octanol/water

Not applicable

Vapour pressure : 23 hPa (20 °C)

Information taken from reference works and the literature.

according to Regulation (EC) No. 1907/2006

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Density : 1.43 g/cm³ (20 °C)

Method: DIN 51757

Relative vapour density : not determined

9.2 Other information

Explosives : No data available

Substances and mixtures, which in contact with water, emit flammable gases

: No data available

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Components:

Potassium Hydroxide:

Acute oral toxicity : LD50 (Rat): 333 mg/kg

according to Regulation (EC) No. 1907/2006

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Skin corrosion/irritation

Product:

Remarks : Causes severe burns.

Serious eye damage/eye irritation

Product:

Remarks : Causes serious eye damage.

Carcinogenicity

Product:

Carcinogenicity - Assess-

ment

: Not classifiable as a human carcinogen.

11.2 Information on other hazards

SECTION 12: Ecological information

12.1 Toxicity

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

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

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:

according to Regulation (EC) No. 1907/2006

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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 Endocrine disrupting properties

No data available

12.7 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 : Waste codes should be assigned by the user, preferably in

discussion with the waste disposal authorities.

SECTION 14: Transport information

14.1 UN number or ID 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.

(Potassium Hydroxide)

RID : CORROSIVE LIQUID, N.O.S.

(Potassium Hydroxide)

IMDG : CORROSIVE LIQUID, N.O.S.

(Potassium Hydroxide)

IATA : Corrosive liquid, n.o.s.

(Potassium Hydroxide)

14.3 Transport hazard class(es)

Class Subsidiary risks

ADR : 8

according to Regulation (EC) No. 1907/2006

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 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 : Alkalis, Clear of living quarters.

IATA (Cargo)

Packing instruction (cargo : 855

aircraft)

Packing instruction (LQ) : Y840
Packing group : II

Labels : Corrosive

IATA_P (Passenger)

Packing instruction (passen- : 851

ger aircraft)

Packing instruction (LQ) : Y840
Packing group : II

Labels : Corrosive

14.5 Environmental hazards

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

according to Regulation (EC) No. 1907/2006

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SECTION 15: Regulatory information

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

UK REACH List of substances subject to authorisation : Not applicable

(Annex XIV)

UK REACH Candidate list of substances of very high

concern (SVHC) for Authorisation

Not applicable

The Persistent Organic Pollutants Regulations (retained

Regulation (EU) 2019/1021 as amended for Great Brit-

ain)

Not applicable

Other regulations:

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of other abbreviations

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road: AIIC - Australian Inventory of Industrial Chemicals: 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; TECI -

according to Regulation (EC) No. 1907/2006

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Thailand Existing Chemicals 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.

Classification of the mixture:

Classification procedure:

Skin Corr. 1 H314 Eye Dam. 1 H318 Based on product data or assessment Based on product data or assessment

GB / EN