according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

## hebro A brand of BASF - we create chemi

#### 1019-K60 hebro®add Aktiv

Version: 2.9 Revision Date: 02.09.2024 Print Date: 03.09.2024

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

1.1 Product identifier

Trade name : I019-K60 hebro®add Aktiv

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

Use of the Sub-: pH-value adjustment

stance/Mixture

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

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

Contact person product safety Abteilung Produktsicherheit 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.

Acute toxicity, Category 4 H302: Harmful if swallowed.

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



according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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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.

Precautionary statements : Prevention:

P280 Wear protective gloves/ protective clothing/ eye

protection/ 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. Immedi-

ately 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.

P390 Absorb spillage to prevent material damage.

#### Hazardous components which must be listed on the label:

Potassium Hydroxide

Sodium metasilicate pentahydrate

#### 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.

Ecological information: This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

Toxicological information: This substance/mixture does not contain components considered to have endocrine disrupting properties for human health according to UK REACH Article 57(f),

#### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Chemical nature : Aqueous preparation of alkali and metasilicates

#### Components

Components			
Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
Potassium Hydroxide	1310-58-3	Acute Tox. 4; H302	>= 25 - < 50
	215-181-3	Skin Corr. 1A; H314	
	01-2119487136-33	Eye Dam. 1; H318	

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		specific concentration limit Skin Corr. 1A; H314 >= 5 % Skin Corr. 1B; H314 2 - < 5 % Eye Irrit. 2; H319 0.5 - < 2 % Skin Irrit. 2; H315 0.5 - < 2 %	
Sodium metasilicate pentahydrate	10213-79-3 229-912-9 01-2119449811-37	Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system)	>= 5 - < 10

For explanation of abbreviations see section 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice First aider needs to protect himself.

Move out of dangerous area.

If inhaled Move to fresh air.

If symptoms persist, call a physician.

: Take off all contaminated clothing immediately. In case of skin contact

After contact with skin, wash immediately with plenty of water.

If symptoms persist, call a physician.

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 Clean mouth with water and drink afterwards plenty of water.

Do NOT induce vomiting.

If symptoms persist, call a physician.

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

Risks Harmful if swallowed.

Causes serious eye damage.

Causes severe burns.

### 4.3 Indication of any immediate medical attention and special treatment needed

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam

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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

: The product is not flammable.

5.3 Advice for firefighters

for firefighters

Special protective equipment : In the event of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus for firefighting if nec-

essary.

Specific extinguishing meth-

ods

Use water spray to cool unopened containers.

Further information 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-

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. Suitable material for dilution or neutralization

#### 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.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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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.

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

Recommended storage tem- :

perature

5 - 40 °C

7.3 Specific end use(s)

Specific use(s) : pH-value adjustment

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Potassium Hydrox- ide	1310-58-3	STEL	2 mg/m3	GB EH40

#### 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

#### 8.2 Exposure controls

#### Personal protective equipment

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

Face-shield

Hand protection

Material : Protective gloves complying with EN 374.

Break through time : > 60 min Protective index : Class 3

Material : Nitrile rubber Glove thickness : 0.4 mm

Material : butyl-rubber Glove thickness : 0.5 mm

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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 : Chemical resistant protective clothing according to DIN EN

13034 (Type 6)

Long sleeved clothing Chemical resistant apron

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

formed.

Filter type : Combined particulates, ammonia/amines, inorganic

gas/vapour and organic vapour type (ABK-P)

Protective measures : When using do not eat, drink or smoke.

Wash hands before breaks and at the end of workday.

Follow the skin protection plan.

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

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : colourless

Odour : mild

Melting point/freezing point : not determined

Boiling point/boiling range : Method: DIN 51751

No data available

Upper explosion limit / Upper

flammability limit

not determined

Lower explosion limit / Lower

flammability limit

not determined

Auto-ignition temperature : not determined

pH : 12.5 (20 °C)

Concentration: 10 g/l

Viscosity

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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Viscosity, kinematic : similar to water

Solubility(ies)

Water solubility : completely soluble

Partition coefficient: n-

octanol/water

: Not applicable

Vapour pressure : not determined

Density : 1.41 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

Metal corrosion rate : Corrosive to metals

#### **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

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#### 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**

Harmful if swallowed.

**Product:** 

: Acute toxicity estimate: 893.07 mg/kg Acute oral toxicity

Method: Calculation method

Components:

**Potassium Hydroxide:** 

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

Skin corrosion/irritation

Causes severe burns.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

Not classified due to lack of data.

Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

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

**Product:** 

Carcinogenicity - Assess- : Not classifiable as a human carcinogen.

ment

Reproductive toxicity

Not classified due to lack of data.

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

**Aspiration toxicity** 

Not classified due to lack of data.

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#### 11.2 Information on other hazards

#### **Endocrine disrupting properties**

**Product:** 

Assessment This substance/mixture does not contain components consid-

ered to have endocrine disrupting properties for human health

according to UK REACH Article 57(f),

#### **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

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): > 100 mg/l

Method: OECD Test Guideline 202

#### Sodium metasilicate pentahydrate:

Toxicity to fish : LC50 (Brachydanio rerio (Zebra danio)): 210 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1,700 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

: EC50 (Desmodesmus subspicatus (green algae)): > 345 mg/l

Exposure time: 72 h

#### 12.2 Persistence and degradability

**Product:** 

Biodegradability : Remarks: No data available

#### 12.3 Bioaccumulative potential

Product:

: Remarks: No data available Bioaccumulation

#### **Components:**

#### Sodium metasilicate pentahydrate:

Bioaccumulation : Remarks: No data available

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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#### 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 Endocrine disrupting properties

**Product:** 

Assessment : This substance/mixture does not contain components consid-

ered to have endocrine disrupting properties for environment

according to UK REACH Article 57(f).

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 1814
RID : UN 1814
IMDG : UN 1814
IATA : UN 1814

#### 14.2 UN proper shipping name

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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ADR : POTASSIUM HYDROXIDE SOLUTION
RID : POTASSIUM HYDROXIDE SOLUTION
IMDG : POTASSIUM HYDROXIDE SOLUTION

IATA : Potassium hydroxide solution

14.3 Transport hazard class(es)

Class Subsidiary risks

ADR : 8
RID : 8
IMDG : 8
IATA : 8

14.4 Packing group

**ADR** 

Packing group : II
Classification Code : C5
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : (E)

**RID** 

Packing group : II
Classification Code : C5
Hazard Identification Number : 80
Labels : 8

**IMDG** 

Packing group : II Labels : 8

EmS Code : F-A, S-B

Remarks : Alkalis, Stow "separated from" SGG1 - acids.

IATA (Cargo)

Packing instruction (cargo : 855

aircraft)

Packing instruction (LQ) : Y840 Packing group : II

Labels : Corrosives

IATA\_P (Passenger)

Packing instruction (passen- : 851

ger aircraft)

Packing instruction (LQ) : Y840 Packing group : II

Labels : Corrosives

14.5 Environmental hazards

**ADR** 

Environmentally hazardous : no

RID

Environmentally hazardous : no

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**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.

#### **SECTION 15: Regulatory information**

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) Conditions of restriction for the fol-

lowing entries should be considered:

Number on list 3 Not applicable

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-

Regulation (EC) on substances that deplete the ozone Not applicable

layer

UK REACH List of substances subject to authorisation Not applicable

(Annex XIV)

GB Export and import of hazardous chemicals - Prior

Informed Consent (PIC) Regulation

: Not applicable

#### 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. H335 May cause respiratory irritation.

#### Full text of other abbreviations

Acute Tox. Acute toxicity Eye Dam. Serious eye damage

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

STOT SE : Specific target organ toxicity - single exposure 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 -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:

Met. Corr. 1 H290 Based on product data or assessment

Acute Tox. 4 H302 Calculation method

Skin Corr. 1 H314 Based on product data or assessment

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Eye Dam. 1 H318 Based on product data or assessment

GB / EN