



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

1.1 Product identifier

Trade name/designation KOROMINERAL Li+

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

Relevant identified uses

Sector of uses [SU]

SU19 Building and construction work.

1.3 Details of the supplier of the safety data sheet

Importer/Only Representative

KORODUR Westphal Hartbeton GmbH & Co. KG

Hohensteinstr. 19

44866 Bochum

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Telefax: +49 (0)2327/321084

E-mail: info@korodur.de

Dept. responsible for information: Technik

Information telephone: +49(0)2327/9457-17

www.korodur.de

1.4 Emergency telephone number

No data available

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

health hazards

Skin Irrit. 2

hazard statements for health hazards

H315 Causes skin irritation.

health hazards

Eye Dam. 1

hazard statements for health hazards

H318 Causes serious eye damage.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard components for labelling

silica, lithium salt, potassium methylsilane triolate

Hazard pictograms



GHS05

Signal word

Danger

Hazard statements

hazard statements for health hazards

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements

Response:

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

P332 + P313 If skin irritation occurs: Get medical advice/attention.



2.3 Other hazards

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition / information on ingredients

3.1/3.2 Substances/Mixtures

Hazardous ingredients

silica, lithium-salt	<10 %
CAS 12627-14-4	
EC 235-730-0	
Eye Dam. 1, H318 / Skin Irrit. 2, H315	
potassium methy silicate	<3 %
CAS 31795-24-1	
EC 250-807-9	
REACHNo 01-2119517439-34-0000	
Skin Corr. 1A, H314 / Eye Dam. 1, H318	

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Consult a physician if problems persist.

Following inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

Following skin contact

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

After eye contact

Consult an ophthalmologist. If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Do not induce vomiting. Rinse mouth immediately and drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguishing powder

Foam

Unsuitable extinguishing media

Water

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon dioxide (CO₂)

Carbon monoxide

Nitrogen oxides (NO_x)

5.3 Advice for firefighters

No data available



SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Personal precautions

See protective measures under point 7 and 8.

For emergency responders

Personal protection equipment

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Retain contaminated washing water and dispose it.

6.3 Methods and material for containment and cleaning up

For containment

Suitable material for taking up:

Sand
Kieselguhr
Universal binder

For cleaning up

Unsuitable material for diluting or neutralising:

Water

6.4 Reference to other sections

Disposal: see section 13
Safe handling: see section 7

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing. Wash contaminated clothing prior to re-use. Wash hands before breaks and after work. Thorough skin-cleansing after handling the product.

Provide eye shower and label its location conspicuously

Protective measures

Advices on safe handling

Working places should be designed to allow cleaning at any time.

Measures to prevent fire

The product is not:
Combustible.

7.2 Conditions for safe storage, including any incompatibilities

Hints on joint storage

Materials to avoid

Keep away from:
Acid
Food and feedingstuffs

Further information on storage conditions

Keep container tightly closed and in a well-ventilated place.

7.3 Specific end use(s)

Recommendation

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

Additional information

Further information: see technical data sheet.



8.1 Control parameters

DNEL-/PNEC-values

DNEL Consumer

Substance name potassium methy silicate

DNEL type

inhalative, short-term, systemic, (acute)

DNEL value 10 mg/m³

DNEL worker

Substance name potassium methy silicate

DNEL type

inhalative, short-term, systemic, (acute)

DNEL value 47 mg/m³

PNEC

PNEC Value 4,2 mg/L

PNEC type

aquatic, freshwater

PNEC Value 0,42 mg/L

PNEC type

aquatic, marine water

PNEC Value 3,3 mg/kg

PNEC type

sediment, freshwater

PNEC Value 0,33 mg/kg

PNEC type

sediment, marine water

PNEC Value 10 mg/L

PNEC type

sewage treatment plant

PNEC Value 3,3 mg/kg

PNEC type

secondary poisoning

8.2 Exposure controls

Appropriate engineering controls

Technical measures to prevent exposure

Reduce exposure to fume by keeping operating temperatures as low as possible taking into account occupational exposure limits and safe handling temperatures (see Section 7). Where practicable handle within an enclosed process. Alternatively local exhaust ventilation should be considered.

Personal protection equipment

Eye/face protection

Suitable eye protection:

Tightly sealed safety glasses.

Skin protection

Suitable material:

Butyl caoutchouc (butyl rubber)

NBR (Nitrile rubber)

FKM (fluoro rubber)

Body protection:

Suitable protective clothing:

Overall

Respiratory protection

Suitable respiratory protection apparatus:

particle filter device (DIN EN 143)



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state

liquid

Colour

colourless

Odour

odourless

		parameter	Method - source - remark
pH	ca.11	Temperature 20 °C	
Melting point/freezing point			not determined
Initial boiling point and boiling range	>100 °C		
Flash point (°C)			not determined
Evaporation rate			not determined
flammability			not determined
Upper explosion limit			not determined
Vapour pressure			not determined
Vapour density			not determined
Relative density	1,09 g/cm ³	Temperature 20 °C	ISO 2811, Part 1
Fat solubility (g/L)			not determined
Water solubility (g/L)			not determined
Soluble (g/L) in			not determined
Partition coefficient: n-octanol/water			not determined
Auto-ignition temperature			not determined
Decomposition temperature			not determined
Dynamic viscosity			not determined
flow time			not determined
Kinematic viscosity			not determined

9.2 Other information

Physical hazards

Flammable solids

Assessment/classification

Non-flammable.

SECTION 10: Stability and reactivity

10.1 Reactivity

none

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

No information available.



10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Materials to avoid

Acid

10.6 Hazardous decomposition products

none

SECTION 11: Toxicological information

Additional information

No data available

11.1 Information on toxicological effects

Acute toxicity

Acute dermal toxicity

remark

not determined

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

ingredient potassium methy silicate

Acute (short-term) fish toxicity >500 mg/L

Effective dose

LC50:

Test duration 4 d

species

Brachydanio rerio (zebra-fish)

Method

OECD 203

12.2 Persistence and degradability

Biodegradation

ingredient potassium methy silicate

remark

According to experiences this product is inert and not degradable.

12.3 Bioaccumulative potential

Assessment/classification

No indication of bioaccumulation potential.

12.4 Mobility in soil

Assessment/classification

data lacking

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Appropriate disposal / Package

Delivery to an approved waste disposal company.

Waste code packaging 060205

hazardous waste Yes.



Waste name

other bases

Waste code product 150110

hazardous waste Yes.

Waste name

packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN-No.	not applicable	not applicable	not applicable
14.2 Proper Shipping Name	not applicable	not applicable	not applicable
14.3 Class(es)	not applicable	not applicable	not applicable
14.4 Packing group	not applicable	not applicable	not applicable
14.5 ENVIRONMENTALLY HAZARDOUS	not applicable	not applicable	not applicable
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	not applicable	not applicable	not applicable

Additional information - Land transport (ADR/RID)

remark

No dangerous good in sense of this transport regulation.

Additional information - Sea transport (IMDG)

remark

No dangerous good in sense of this transport regulation.

Additional information - Air transport (ICAO-TI / IATA-DGR)

remark

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Key literature references and sources for data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.