

Safety Data Sheet

according to Regulation (EC) No 1907/2006



KOROSIN L

Print date: 26.02.2014

Product code: 11386-0019

Page 1 of 8

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

1.1. Product identifier

KOROSIN L

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

Use of the substance/mixture

Corrosion protection additive

1.3. Details of the supplier of the safety data sheet

Company name: pro Kühlsole GmbH
Street: Am Langen Graben 37
Place: D-52353 Düren
Telephone: +49 2421 59196-0
Telefax: +49 2421 59196-10
Responsible for the safety data sheet: sds@gbk-ingelheim.de

1.4. Emergency telephone number: Emergency telephone :+49 (0) 6132 / 84463 (GBK GmbH, Ingelheim)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Indications of danger: Xi - Irritant

R phrases:

Irritating to eyes and skin.

GHS classification

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

2.2. Label elements

Signal word: Warning

Pictograms: GHS07



Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

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

P362 Take off contaminated clothing.

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

P337+P313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

High risk of slipping due to leakage/spillage of product.

Safety Data Sheet

according to Regulation (EC) No 1907/2006



KOROSIN L

Print date: 26.02.2014

Product code: 11386-0019

Page 2 of 8

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Aqueous solution

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
249-596-6	Methyl-1H-benzotriazole	1 - < 5 %
29385-43-1	Xn - Harmful, Xi - Irritant R22-36	
	Acute Tox. 4, Eye Irrit. 2; H302 H319	
215-185-5	caustic soda, sodium hydroxide	< 1 %
1310-73-2	C - Corrosive R35	
011-002-00-6	Met. Corr. 1, Skin Corr. 1A; H290 H314	
01-2119457892-27		

Full text of R and H phrases: see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately.
In the event of persistent symptoms receive medical treatment.

After inhalation

Move to fresh air in case of accidental inhalation of vapours.
In the event of symptoms refer for medical treatment.

After contact with skin

Wash off immediately with soap and plenty of water.
Consult a doctor if skin irritation persists.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Seek medical treatment by eye specialist.

After ingestion

Never give anything by mouth to an unconscious person. Do not induce vomiting.
Rinse out mouth thoroughly with water.
Consult a physician.

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

Irritating to eyes. Irritating to skin. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

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

Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

The product is not combustible.

Safety Data Sheet

according to Regulation (EC) No 1907/2006



KOROSIN L

Print date: 26.02.2014

Product code: 11386-0019

Page 3 of 8

Use fire fighting measures that suit the environment and products stored

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Fire may produce: Carbon monoxide and carbon dioxide. Under certain fire conditions traces of other toxic substances cannot be excluded.

5.3. Advice for firefighters

Use breathing apparatus with independent air supply.

Wear full protective suit.

Additional information

Collect contaminated fire-fighting water, avoid any release into the sewerage. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Avoid contact with eyes, skin or mucous membrane.

Use personal protective clothing.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water.

Suppress gases/vapours/mists with water spray jet

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

6.4. Reference to other sections

Information for disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not inhale vapour/aerosol.. In case of insufficient ventilation, especially in confined areas.

Use only in thoroughly ventilated areas.

Avoid contact with eyes, skin or mucous membrane.

Ensure adequate ventilation, especially in confined areas.

Advice on protection against fire and explosion

No special precautions required.

Further information on handling

Protective goggles in the event of risk of splashes.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

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

Keep only in original container.

Advice on storage compatibility

Keep away from food, drink and animal feeding stuffs.

Further information on storage conditions

Protect from frost.

7.3. Specific end use(s)

No data available.

Safety Data Sheet

according to Regulation (EC) No 1907/2006



KOROSIN L

Print date: 26.02.2014

Product code: 11386-0019

Page 4 of 8

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
1310-73-2	Sodium hydroxide	-	-	-	TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

8.2. Exposure controls



Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

Avoid contact with skin, eyes and clothing.

Take off immediately all contaminated clothing.

Eye/face protection

Tightly fitting goggles (EN 166).

Eye wash bottle with pure water (EN 15154).

Hand protection

Chemical-resistant gloves (EN 374). Suitable materials also for extended, direct contact (recommended: protection index 6, corresponding to a permeation rate > 480 minutes according to EN 374): Nitrile rubber, butyl rubber.

Follow the recommendations of the glove manufacturer for breakthrough properties especially for workplace conditions involving mechanical stress and contact duration.

Skin protection

Long sleeved clothing (EN 368).

Respiratory protection

No personal respiratory protective equipment normally required.

Breathing apparatus in the event of aerosol or mist formation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Colourless, Light yellow
Odour:	characteristic

Test method

pH-Value (at 20 °C):	8,8
----------------------	-----

Changes in the physical state

Melting point:	n.a.
Initial boiling point and boiling range:	112 °C
Flash point:	111 °C

Safety Data Sheet

according to Regulation (EC) No 1907/2006



KOROSIN L

Print date: 26.02.2014

Product code: 11386-0019

Page 5 of 8

Density (at 20 °C):	1,10 - 1,15 g/cm ³
Water solubility: (at 20 °C)	Completely miscible
Explosive properties	The product is not explosive
Oxidizing properties	The product is not self-igniting
Solvent content:	0 %

9.2. Other information

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Chemically stable.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Keep from freezing.

10.5. Incompatible materials

None under normal processing.

10.6. Hazardous decomposition products

No data available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

Acute toxicity

CAS No	Chemical name	Exposure routes	Method	Dose	Species	Source
29385-43-1	Methyl-1H-benzotriazole	oral	LD50	675 mg/kg	Rat	
		dermal	LD50 mg/kg	> 2000	Rabbit	

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Sensitising effects

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

STOT-single exposure

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

Severe effects after repeated or prolonged exposure

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006



KOROSIN L

Print date: 26.02.2014

Product code: 11386-0019

Page 6 of 8

Aspiration hazard

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

SECTION 12: Ecological information

12.1. Toxicity

No data available.

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
1310-73-2	caustic soda, sodium hydroxide					
	Acute fish toxicity	LC50	45,4 mg/l	96 h	Onchorhynchus mykiss	

12.2. Persistence and degradability

Product is biodegradable.: > 90 % (OECD 301 F)

12.3. Bioaccumulative potential

Not determined.

12.4. Mobility in soil

Not determined.

12.5. Results of PBT and vPvB assessment

Not determined.

12.6. Other adverse effects

Low hazard to waters.

Further information

Do not release undiluted or in higher quantities into the groundwater, sewerage or waters.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Should not be disposed of with household waste. Do not flush into surface water or sanitary sewer system. Where possible recycling is preferred to disposal. The waste code number must be agreed with the disposer / manufacturer / competent authority.

Waste disposal number of waste from residues/unused products

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing dangerous substances
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal. Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of like the product.

Cleaning agent: Water

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: Not applicable

14.2. UN proper shipping name: Not applicable

Safety Data Sheet

according to Regulation (EC) No 1907/2006



KOROSIN L

Print date: 26.02.2014

Product code: 11386-0019

Page 7 of 8

14.3. Transport hazard class(es): Not applicable

14.4. Packing group: Not applicable

Other applicable information (land transport)

No hazardous material as defined by the transport regulations.

Inland waterways transport (ADN)

Other applicable information (inland waterways transport)

No hazardous material as defined by the transport regulations.

Marine transport (IMDG)

Other applicable information (marine transport)

No hazardous material as defined by the transport regulations.

Air transport (ICAO)

Other applicable information (air transport)

No hazardous material as defined by the transport regulations.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

The transport takes place only in approved and appropriate packaging.

SECTION 15: Regulatory information

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

EU regulatory information

1999/13/EC (VOC): 0 %

National regulatory information

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for women of child-bearing age.

Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

Changes in chapter: 4, 8, 14, 15

Abbreviations and acronyms

EC Directives: acts of the European Union, part of the secondary Union law

CAS-Nr.: Chemical Abstracts Service

TRGS 510: Technical Rules for Hazardous Substances "storage of hazardous materials in portable tanks"

TRGS 900: Technical Rules for Hazardous Substances "workplace exposure limits"

EN 374: Standard for protective gloves (gloves for protection against chemicals and micro-organisms)

EN 166: European safety standards for eye and face protection (requirements)

STOT: Specific target organ toxicity

AVV: European Waste Catalogue

VOC: Volatile organic compound

GHS: Globally Harmonized System of Classification, Labelling and Packaging of Chemicals

ADR: Agreement concerning the international carriage of Dangerous goods by Road

Safety Data Sheet

according to Regulation (EC) No 1907/2006



KOROSIN L

Print date: 26.02.2014

Product code: 11386-0019

Page 8 of 8

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail

IMDG-Code: International Maritime Code for Dangerous Goods

ADN: sea and inland waterway transport

ICAO: International Civil Aviation Organization

MARPOL 73/78: International Convention for the Prevention of Pollution From Ships

IBC-Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

n.a. - not applicable

Full text of R phrases referred to under Sections 2 and 3

- | | |
|-------|------------------------------|
| 22 | Harmful if swallowed. |
| 35 | Causes severe burns. |
| 36 | Irritating to eyes. |
| 36/38 | Irritating to eyes and skin. |

Full text of H statements referred to under Sections 2 and 3

- | | |
|------|--|
| H290 | May be corrosive to metals. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)