

Safety Data Sheet

according to Regulation (EC) No 1907/2006



KOROSIN N

Revision date: 25.03.2020

Product code: 11386-0017

Page 1 of 10

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

1.1. Product identifier

KOROSIN N

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
Responsible Department: Responsible for the safety data sheet: sds@gbk-ingelheim.de
Telefax: +49 2421 59196-10

1.4. Emergency telephone number:

Notrufnummer INTERNATIONAL: +49 (0) 6132 / 84463 (GBK GmbH, Ingelheim)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

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

Regulation (EC) No. 1272/2008

Signal word: Warning

Pictograms:



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+P364 Take off contaminated clothing and wash it before reuse.
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.

Additional advice on labelling

UFI Code number: WA53-149C-RKA0-7VT1

The product is labeled in accordance with Regulation (EC) no. 1272/2008 (GHS).

Safety Data Sheet

according to Regulation (EC) No 1907/2006



KOROSIN N

Revision date: 25.03.2020

Product code: 11386-0017

Page 2 of 10

2.3. Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT substance.

PED Category Group 2.

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Aqueous solution

Hazardous components

| CAS No | Chemical name | | | Quantity |
|------------|---|--------------|------------------|-----------|
| | EC No | Index No | REACH No | |
| | GHS Classification | | | |
| 29385-43-1 | Methyl-1H-benzotriazole | | | 1 - < 5 % |
| | 249-596-6 | | 01-2119979081-35 | |
| | Acute Tox. 4, Aquatic Chronic 2; H302 H411 | | | |
| 1310-73-2 | sodium hydroxide | | | 1 - < 5 % |
| | 215-185-5 | 011-002-00-6 | 01-2119457892-27 | |
| | Met. Corr. 1, Skin Corr. 1A, Eye Dam. 1; H290 H314 H318 | | | |

Full text of H and EUH statements: 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

Causes skin irritation. Causes serious eye irritation.

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

Treat symptoms.

Safety Data Sheet

according to Regulation (EC) No 1907/2006



KOROSIN N

Revision date: 25.03.2020

Product code: 11386-0017

Page 3 of 10

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

The product is not combustible.

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006



KOROSIN N

Revision date: 25.03.2020

Product code: 11386-0017

Page 4 of 10

Hints on joint storage

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

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 | - | 2 | | STEL (15 min) | WEL |

PNEC values

| CAS No | Substance | Value |
|------------|------------------------------------|-------------|
| 29385-43-1 | Methyl-1H-benzotriazole | |
| | Freshwater | 0,008 mg/l |
| | Freshwater (intermittent releases) | 0,086 mg/l |
| | Marine water | 0,008 mg/l |
| | Freshwater sediment | 0,003 mg/kg |
| | Marine sediment | 0,003 mg/kg |
| | Soil | 0,002 mg/kg |

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 (DIN EN ISO 6530)

Safety Data Sheet

according to Regulation (EC) No 1907/2006



KOROSIN N

Revision date: 25.03.2020

Product code: 11386-0017

Page 5 of 10

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 |
| pH-Value (at 20 °C): | 9,2 |

Changes in the physical state

| | |
|--|---------------------------|
| Melting point: | n.a. |
| Initial boiling point and boiling range: | 100 °C |
| Sublimation point: | Not applicable |
| Softening point: | Not applicable |
| Flash point: | 111 °C |
| Sustaining combustion: | Not sustaining combustion |

Flammability

| | |
|--------|----------------|
| Solid: | Not applicable |
| Gas: | Not applicable |

Explosive properties

The product is not explosive.

| | |
|-------------------------|----------------|
| Lower explosion limits: | Not applicable |
| Upper explosion limits: | Not applicable |
| Ignition temperature: | Not applicable |

Auto-ignition temperature

| | |
|--------|----------------|
| Solid: | Not applicable |
| Gas: | Not applicable |

Decomposition temperature: Not determined

Oxidizing properties

The product is not self-igniting

| | |
|---------------------------------|-------------------------------|
| Vapour pressure: (at 20 °C) | Not determined |
| Vapour pressure: (at 50 °C) | Not determined |
| Density (at 20 °C): | 1,32 - 1,37 g/cm ³ |
| Bulk density: | Not applicable |
| Water solubility: (at 20 °C) | Completely miscible |

Solubility in other solvents

Not determined.

| | |
|------------------------|----------------|
| Partition coefficient: | Not determined |
| Viscosity / dynamic: | Not determined |
| Viscosity / kinematic: | Not determined |

Safety Data Sheet

according to Regulation (EC) No 1907/2006



KOROSIN N

Revision date: 25.03.2020

Product code: 11386-0017

Page 6 of 10

Flow time: Not determined
Vapour density: Not determined
Evaporation rate: Not determined
Solvent separation test: Not applicable.
Solvent content: 0 %

9.2. Other information

Solid content: Not determined
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.

| CAS No | Chemical name | | | | |
|------------|-------------------------|----------------------|---------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 29385-43-1 | Methyl-1H-benzotriazole | | | | |
| | oral | LD50 mg/kg 720 | Rat | | |
| | dermal | LD50 mg/kg > 4000 | Rabbit | | |

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

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.

STOT-single exposure

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006



KOROSIN N

Revision date: 25.03.2020

Product code: 11386-0017

Page 7 of 10

STOT-repeated exposure

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

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 | Dose | [h] [d] | Species | Source | Method |
|------------|-------------------------|------|-----------|---------|----------------------|----------|
| 29385-43-1 | Methyl-1H-benzotriazole | | | | | |
| | Acute fish toxicity | LC50 | 180 mg/l | 96 h | Danio rerio | OECD 203 |
| 1310-73-2 | 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

Disposal recommendations

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.

List of Wastes Code - 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 hazardous substances; hazardous waste

List of Wastes Code - used product

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

List of Wastes Code - 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

Safety Data Sheet

according to Regulation (EC) No 1907/2006



KOROSIN N

Revision date: 25.03.2020

Product code: 11386-0017

Page 8 of 10

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:** No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

- 14.1. UN number:** No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

- 14.1. UN number:** No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

- 14.1. UN number:** No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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 regulatory information

2004/42/EC (VOC): 0 %
Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Safety Data Sheet

according to Regulation (EC) No 1907/2006



KOROSIN N

Revision date: 25.03.2020

Product code: 11386-0017

Page 9 of 10

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions for women of child-bearing age.

Water hazard class (D):

1 - slightly hazardous to water

Additional information

- TSCA USA: listed
- DSL/NDSL Kanada: listed
- AICS Australien: listed
- IECSC China: listed
- ENCS Japan: listed
- KECL Korea: listed
- PICCSI Philippinen: listed
- NzIoC Neuseeland: listed

15.2. Chemical safety assessment

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

SECTION 16: Other information

Changes

Update 2020

Abbreviations and acronyms

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (Agreement concerning the international carriage of Dangerous goods by Road)

IMDG-Code: International Maritime Code for Dangerous Goods

ICAO: International Civil Aviation Organisation (IATA: The International Air Transport Association)

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

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

| Classification | Classification procedure |
|---------------------|--------------------------|
| Skin Irrit. 2; H315 | Calculation method |
| Eye Irrit. 2; H319 | Calculation method |

Relevant H and EUH statements (number and full text)

- | | |
|------|--|
| H290 | May be corrosive to metals. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H411 | Toxic to aquatic life with long lasting effects. |

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)

Safety Data Sheet

according to Regulation (EC) No 1907/2006



KOROSIN N

Revision date: 25.03.2020

Product code: 11386-0017

Page 10 of 10

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