

Safety Data Sheet

according to 29 CFR 1910.1200(g)



KOROSIN 2000

Revision date: 08.01.2018

Product code: 11386-0020US

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1. Identification

Product identifier

KOROSIN 2000

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Corrosion protection additive
For industrial application

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

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

2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200

Hazard categories:
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2A
Hazard Statements:
Causes skin irritation
Causes serious eye irritation

Label elements

29 CFR Part 1910.1200

Signal word: Warning

Pictograms:



Hazard statements

Causes skin irritation
Causes serious eye irritation

Precautionary statements

Wash hands thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin: Wash with plenty of water.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Hazards not otherwise classified

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

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PBT substance.

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

3. Composition/information on ingredients

Mixtures

Chemical characterization

Aqueous solution

Hazardous components

CAS No	Components	Quantity
29385-43-1	Methyl-1H-benzotriazole	1.5 %

4. First-aid measures

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.

Most important symptoms and effects, both acute and delayed

OSHA Hazard Communication: This material is considered hazardous by the OSHA Hazard Communication Standard 29CFR 1910.1200.

Causes skin irritation. Causes serious eye irritation. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache). Possibility of strong irritations in the case of contact with eye-, skin or mucous membranes because of the high ph-value.

Indication of any immediate medical attention and special treatment needed

Treat symptoms.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

The product is not combustible.
Use fire fighting measures that suit the environment and products stored

Specific hazards arising from the chemical

Fire may produce: carbon monoxide and carbon dioxide Under certain fire conditions traces of other toxic

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substances cannot be excluded.

Special protective equipment and precautions for fire-fighters

Use breathing apparatus with independent air supply.
Wear full protective suit.

Additional information

Apply cooling water to the side of containers that are exposed to flames.
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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Avoid contact with eyes, skin or mucous membrane.
Use personal protective clothing.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.
Suppress gases/vapours/mists with water spray jet.

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.

Reference to other sections

Information for disposal look up chapter 13.

7. Handling and storage

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.

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.

8. Exposure controls/personal protection

Control parameters

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Additional advice on limit values

The product contains no relevant quantities of materials with critical values that require monitoring at the workplace.

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.
Eye wash bottle with pure water.

Hand protection

Chemical-resistant gloves (EN 374) / NIOSH/MSHA approved 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.

Respiratory protection

No personal respiratory protective equipment normally required.
Breathing apparatus in the event of aerosol or mist formation.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Liquid
Color:	Colourless, Light yellow
Odor:	Characteristic
pH-Value (at 20 °C):	10 - 11

Changes in the physical state

Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	100 °C
Sublimation point:	No data available.
Softening point:	No data available.
Flash point:	111 °C
Sustaining combustion:	No data available

Flammability

Solid: No data available.

Explosive properties

The product is not explosive.

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Lower explosion limits: No data available.

Upper explosion limits: No data available.

Ignition temperature: No data available.

Auto-ignition temperature

Solid: No data available.

Decomposition temperature: No data available.

Oxidizing properties

The product is not self-igniting.

Vapor pressure: No data available.

(at 20 °C)

Density (at 20 °C): 1.30 - 1.40 g/cm³

Water solubility: Completely miscible

(at 20 °C)

Solubility in other solvents

No data available..

Partition coefficient: No data available.

Viscosity / dynamic: No data available.

Viscosity / kinematic: No data available.

Solvent content: 0 %

Other information

No data available.

10. Stability and reactivity

Reactivity

Stable under normal conditions.

Chemical stability

Stability: Stable

Chemically stable.

Possibility of hazardous reactions

Hazardous reactions: Will not occur

None under normal processing.

Conditions to avoid

Keep from freezing.

Incompatible materials

None under normal processing.

Hazardous decomposition products

No data available.

11. Toxicological information

Information on toxicological effects

Route(s) of Entry

Skin and eye contact, inhalation and ingestion.

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Acute toxicity

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

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

Irritation and corrosivity

Causes skin irritation

Causes serious eye irritation

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

Sensitizing 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.

Specific target organ toxicity (STOT) - single exposure

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

Specific target organ toxicity (STOT) - repeated exposure

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

Carcinogenicity (OSHA): Not listed

Carcinogenicity (IARC): Not listed

Carcinogenicity (NTP): Not listed

Aspiration hazard

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

12. Ecological information

Ecotoxicity

No data available.

Persistence and degradability

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

Bioaccumulative potential

Not determined.

Mobility in soil

Not determined.

Other adverse effects

Slightly water hazardous.

Further information

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

13. Disposal considerations

Waste treatment methods

Advice on disposal

Should not be disposed of with household waste.

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Do not flush into surface water or sanitary sewer system.
Where possible recycling is preferred to disposal.
Waste disposal according to local regulations.

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

14. Transport information

US DOT 49 CFR 172.101

Proper shipping name: Not regulated.

Marine transport (IMDG)

UN number: No dangerous good in sense of this transport regulation.

UN proper shipping name: No dangerous good in sense of this transport regulation.

Transport hazard class(es): No dangerous good in sense of this transport regulation.

Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

UN number: No dangerous good in sense of this transport regulation.

UN proper shipping name: No dangerous good in sense of this transport regulation.

Transport hazard class(es): No dangerous good in sense of this transport regulation.

Packing group: No dangerous good in sense of this transport regulation.

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

Special precautions for user

No dangerous good in sense of this transport regulation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No dangerous good in sense of this transport regulation.

15. Regulatory information

U.S. Regulations

National Inventory TSCA

All of the components are listed on the TSCA inventory.

National regulatory information

SARA Section 311/312 Hazards:

Methyl-1H-benzotriazole (29385-43-1): Immediate (acute) health hazard

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other information

Hazardous Materials Information Label (HMIS)

Health: 1

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Flammability: 0

Physical Hazard: 0

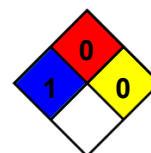
NFPA Hazard Ratings

Health: 1

Flammability: 0

Reactivity: 0

Unique Hazard:



Changes

Revision date: 08.01.2018

Revision No: 1,0

Update 2018

Abbreviations and acronyms

ADR: 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

Other data

The information in this document is based on the present state of knowledge and is applicable to the product with regard to appropriate safety precautions.

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.)