

**Safety Data Sheet**

acc. to OSHA HCS

Printing date 01/20/2020

Reviewed on 01/20/2020

**1 Identification**

**Product identifier**

**Trade name:** ROPREP

**Application of the substance / the mixture** Anti-fouling agent

**Details of the supplier of the safety data sheet**

**Manufacturer / Importer / Supplier:**

Romaco BV (TS)

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The Netherlands

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**2 Hazard(s) identification**

**Classification of the substance or mixture**



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

**Label elements**

**Keep out of reach of children** The product is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms** GHS07

**Signal word** Warning

**Hazard-determining components of labeling:**

potassium hydroxide

PHOSPHONIC ACID DERIVATIVE

**Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

**Precautionary statements**

Wear protective gloves / eye protection / face protection.

Wash thoroughly after handling.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

If on skin: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

**Classification system:**

**NFPA ratings (scale 0 - 4)**



Health = 3

Fire = 2

Reactivity = 0

**HMS-ratings (scale 0 - 4)**



Health = \*2

Fire = 0

Reactivity = 0

**Safety Data Sheet**

acc. to OSHA HCS

Printing date 01/20/2020

Reviewed on 01/20/2020

Trade name: **ROPREP**

(Contd. of page 1)

**Other hazards**  
**Results of PBT and vPvB assessment**  
PBT: Not applicable.  
vPvB: Not applicable.

**3 Composition/information on ingredients**

**Chemical characterization: Mixtures**

**Description:** Mixture of substances listed below, possibly with non-hazardous additions.

**Dangerous components:**

	POLYCARBOXYLIC ACID - 1	Met. Corr.1, H290; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	25-50%
	POLYCARBOXYLIC ACID - 2	Met. Corr.1, H290; Eye Irrit. 2A, H319	25-50%
	PHOSPHONIC ACID DERIVATIVE	Eye Dam. 1, H318	2.5-10%
1310-58-3	potassium hydroxide	Skin Corr. 1A, H314; Acute Tox. 4, H302	2.5-10%

**4 First-aid measures**

**Description of first aid measures**

**General information:**

Persons, providing assistance, should avoid exposure and danger for themselves or others.

In case of irregular breathing or respiratory arrest provide artificial respiration.

**After inhalation:**

Remove the victim into fresh air, and keep at rest in a position that facilitates breathing.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:**

Take off contaminated clothing immediately and wash the skin with plenty of water (possibly showering).

Rinse with plenty of water and wash with soap.

If skin irritation continues, consult a doctor.

**After eye contact:**

Rinse opened eye for several minutes (at least 15 minutes) under running water. If symptoms persist, consult a doctor.

If possible, remove contact lenses.

**After ingestion:**

Rinse out mouth and then drink plenty of water.

Seek medical treatment.

**Information for doctor:**

**Most important symptoms and effects, both acute and delayed** No further relevant information available.

**Indication of any immediate medical attention and special treatment needed** No further relevant information available.

**5 Fire-fighting measures**

**Extinguishing media**

**Suitable extinguishing agents:** CO2, extinguishing powder or water spray. Fight larger fires with water spray.

**Special hazards arising from the substance or mixture**

Formation of irritating or corrosive gases is possible during heating or in case of fire.

**Advice for firefighters**

**Protective equipment:** Wear self-contained respiratory protective device.

**6 Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Avoid breathing vapor and contact with eyes, skin and clothing.

**Environmental precautions:**

Remainder dilute with plenty of water.

for disposing to sewer: seek approval from Sewer System Operator

(Contd. on page 3)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 01/20/2020

Reviewed on 01/20/2020

**Trade name: ROPREP**

(Contd. of page 2)

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**Protective Action Criteria for Chemicals**

**PAC-1:**

1310-58-3	potassium hydroxide	0.18 mg/m <sup>3</sup>
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**PAC-2:**

1310-58-3	potassium hydroxide	2 mg/m <sup>3</sup>
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**PAC-3:**

1310-58-3	potassium hydroxide	54 mg/m <sup>3</sup>
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**7 Handling and storage**

**Handling:**

**Precautions for safe handling**

Wear appropriate personal protective equipment. (See section 8)

Use only in well ventilated areas (eg natural ventilation).

Avoid inhalation of vapors and contact with eyes, skin and clothing.

**Information about protection against explosions and fires:** No special measures required.

**Conditions for safe storage, including any incompatibilities** Storage must comply with the local regulations.

**Storage:**

**Requirements to be met by storerooms and tanks:**

Keep only in the original container tightly closed.

Unsuitable material for receptacle: aluminium.

**Information about storage in one common storage facility:** Do not store together with acids.

**Further information about storage conditions:**

Protect from frost.

Keep receptacle tightly sealed.

**Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

**Additional information about design of technical systems:** No further data; see section 7.

**Control parameters**

**Components with limit values that require monitoring at the workplace:**

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

**1310-58-3 potassium hydroxide**

REL Ceiling limit value: 2 mg/m<sup>3</sup>

TLV Ceiling limit value: 2 mg/m<sup>3</sup>

**DNELs**

**1310-58-3 potassium hydroxide**

Inhalative Long-term - systemic effects 1 mg/m<sup>3</sup> (Consumer)

1 mg/m<sup>3</sup> (Worker)

**Additional information:** The lists that were valid during the creation were used as basis.

**Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

(Contd. on page 4)

**Safety Data Sheet**

acc. to OSHA HCS

Printing date 01/20/2020

Reviewed on 01/20/2020

**Trade name: ROPREP**

(Contd. of page 3)

**Breathing equipment:**

With mist - and / or vapor formation use respirator.

Approved gas mask (Filter type B / P2)

**Protection of hands:**



Protective gloves

Use protective gloves to EN ISO 374-1

Only use chemical-protective gloves with CE-labeling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

**Material of gloves**

Fluorocarbon rubber (Viton)

Recommended thickness of the material:  $\geq 0.5$  mm

**Penetration time of glove material**

Permeation: Breakthrough time  $>480$  min

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**



Tightly sealed goggles

Use safety glasses that meets the requirements of EN 166; latest versions.

**Body protection:** Alkaline resistant protective clothing

**Limitation and supervision of exposure into the environment** Do not allow to enter in surface water or soil.

**9 Physical and chemical properties**

**Information on basic physical and chemical properties**

**General Information**

**Appearance:**

**Form:** Liquid  
**Color:** Colorless  
**Odor:** Characteristic

**pH-value at 20 °C (68 °F):** 3,8 - 4,2

**Change in condition**

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** 101 °C (213,8 °F)

**Flash point:** Not applicable.

**Danger of explosion:** Product does not present an explosion hazard.

**Explosion limits:**

**Lower:** Not determined.  
**Upper:** Not determined.

**Vapor pressure at 20 °C (68 °F):** 20 hPa (15 mm Hg)

**Density at 20 °C (68 °F):** 1,16 - 1,18 g/cm<sup>3</sup> (9,68 - 9,847 lbs/gal)

**Solubility in / Miscibility with**

**Water:** Fully miscible.

**Viscosity:**

**Dynamic:** Not determined.

**Other information**

No further relevant information available.

US

(Contd. on page 5)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 01/20/2020

Reviewed on 01/20/2020

Trade name: **ROPREP**

(Contd. of page 4)

**10 Stability and reactivity**

**Reactivity** Reacts violently with acids.

**Chemical stability**

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of hazardous reactions** Reacts with alkaline metals.

**Conditions to avoid** No further relevant information available.

**Incompatible materials:** Strong acids

**Hazardous decomposition products:** No dangerous decomposition products known.

**11 Toxicological information**

**Information on toxicological effects**

**Acute toxicity:**

**LD/LC50 values that are relevant for classification:**

**ATE (Acute Toxicity Estimate)**

Oral	LD50	6,324 mg/kg (Rat)
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**1310-58-3 potassium hydroxide**

Oral	LD50	273 mg/kg (Rat)
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**Primary irritant effect:**

**on the skin:** Irritant to skin and mucous membranes.

**on the eye:** Irritating effect.

**Respiratory or skin sensitization:** No sensitizing effects known.

**Additional toxicological information:**

**Carcinogenic categories**

**IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

**NTP (National Toxicology Program)**

None of the ingredients is listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**12 Ecological information**

**Toxicity**

**Aquatic toxicity:**

**1310-58-3 potassium hydroxide**

LC50/96h	80 mg/l (Fish)
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EC50/96h	>10 mg/l (Daphnia Magna)
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**Persistence and degradability** Moderately /partly biodegradable

**Behavior in environmental systems:**

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

**Additional ecological information:**

**General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects** No further relevant information available.

US

(Contd. on page 6)

**Safety Data Sheet**  
 acc. to OSHA HCS

Printing date 01/20/2020

Reviewed on 01/20/2020

**Trade name: ROPREP**

(Contd. of page 5)

**13 Disposal considerations**

**Waste treatment methods**  
**Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packagings:**  
**Recommendation:** Disposal must be made according to official regulations.  
**Recommended cleansing agent:** Water, if necessary with cleansing agents.

**14 Transport information**

<b>UN-Number</b>	Void
DOT, ADR/RID/ADN, ADN, IMDG, IATA	
<b>UN proper shipping name</b>	Void
DOT, ADR/RID/ADN, ADN, IMDG, IATA	
<b>Transport hazard class(es)</b>	
DOT, ADR/RID/ADN, ADN, IMDG, IATA	
<b>Class</b>	Void
<b>Packing group</b>	
DOT, ADR/RID/ADN, IMDG, IATA	Void
<b>Environmental hazards:</b>	
<b>Marine pollutant:</b>	No
<b>Special precautions for user</b>	Not applicable.
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>Transport/Additional information:</b>	Not dangerous according to the above specifications.
<b>UN "Model Regulation":</b>	Void

**15 Regulatory information**

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

**Section 355 (extremely hazardous substances):**  
 None of the ingredient is listed.

**Section 313 (Specific toxic chemical listings):**  
 None of the ingredients is listed.

**TSCA (Toxic Substances Control Act):**

7732-18-5	Water, distilled, conductivity or of similar purity	ACTIVE
1310-58-3	potassium hydroxide	ACTIVE

**Hazardous Air Pollutants**  
 None of the ingredients is listed.

**Proposition 65**

**Chemicals known to cause cancer:**  
 None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for females:**  
 None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for males:**  
 None of the ingredients is listed.

**Chemicals known to cause developmental toxicity:**  
 None of the ingredients is listed.

(Contd. on page 7)

**Safety Data Sheet**

acc. to OSHA HCS

Printing date 01/20/2020

Reviewed on 01/20/2020

**Trade name: ROPREP**

(Contd. of page 6)

**Cancerogenity categories**

**EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**Keep out of reach of children** The product is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms** GHS07

**Signal word** Warning

**Hazard-determining components of labeling:**

potassium hydroxide

PHOSPHONIC ACID DERIVATIVE

**Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

**Precautionary statements**

Wear protective gloves / eye protection / face protection.

Wash thoroughly after handling.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

If on skin: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other information**

**Relevant phrases**

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.

**Department issuing SDS:** Environment protection department.

**Date of preparation / last revision** 01/20/2020 / 11

**Abbreviations and acronyms:**

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADN: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation Intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (Division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

(Contd. on page 8)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 01/20/2020

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**Trade name: ROPREP**

(Contd. of page 7)

PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
EC50: Effective Concentration, 50 percent  
IOELVS: Indicative Occupational Exposure Limit Values  
mPa.s: milliPascal per second  
Met. Corr. 1: Corrosive to metals – Category 1  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Corr. 1A: Skin corrosion/irritation – Category 1A  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

**\* Data compared to the previous version altered.**

**Disclaimer**

The information provided in this Material Safety Data Sheet has been prepared with the utmost care and corresponds to the most recent information available to the supplier on the date of publication mentioned in the header of every page. The contents of this Material Safety Data Sheet should not be considered as a guarantee for certain product properties or fitness for particular purposes. It is the obligation of the user to determine whether the product is suitable for the specific purpose, intended use and the method of application. This Safety Data Sheet only relates to the product described and does not apply to any not defined use or the use of the product in combination with other materials, substances or products. It is the responsibility of the user to use and handle the product with care and to comply with all applicable laws and regulations. The supplier accepts no liability for direct or indirect damages resulting from improper use of this Material Safety Data Sheet and / or the products described therein.

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