

# SAFETY DATA SHEET of: Renopar, hardener

Revision date: Friday, June 1, 2018

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

### 1.1 Product identifier:

# Renopar, hardener

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

/

Concentration in use: /

### 1.3 Details of the supplier of the safety data sheet:

### **PROKOL**

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### 1.4 Emergency telephone number:

+31302748888

### 2 SECTION 2: Hazards identification:

### 2.1 Classification of the substance or mixture:

Classification of the substance or mixture in accordance with regulation (EU) 1272/2008:

H302 Acute tox. 4 H317 Skin Sens. 1 H410 Aquatic Chronic 1

### 2.2 Label elements:

Pictograms:





Signal word:

Warning

### Hazard statements:

H302 Acute tox. 4: Harmful if swallowed.

**H317 Skin Sens. 1:** May cause an allergic skin reaction.

**H410 Aquatic Chronic 1:** Very toxic to aquatic life with long lasting effects.

### Precautionary statements:

P272: Contaminated work clothing should not be allowed out of the workplace.

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

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

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

**P501:** Dispose of contents/container in accordance with local/regional/national/international

regulations.

### Contains:

tris(2-chloro-1-methylethyl) phosphate Lithium chloride 6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine,2-methyl-4,6-bis(methylthio)phenylene-1,3-diamine

#### 2.3 Other hazards:

none

# 3 SECTION 3: Composition/information on ingredients:

tris(2-chloro-1-methylethyl) phosphate	> 30%	CAS number: EINECS: REACH Registration number: CLP Classification:	13674-84-5 237-158-7 01-2119447716-31 <b>H302 Acute tox. 4</b>
6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine,2-methyl-4,6-bis(methylthio)phenylene-1,3-diamine	> 30%	CAS number: EINECS: REACH Registration number: CLP Classification:	106264-79-3 403-240-8 01-0000015292-76 H302 Acute tox. 4 H317 Skin Sens. 1 H410 Aquatic Chronic 1
Naphta heavy (high boiling point hydrogen treated)	< 5%	CAS number: EINECS: REACH Registration number: CLP Classification:	64742-82-1 265-185-4 EUH066 H226 Flam. Liq. 3 H304 Asp. Tox. 1 H336 STOT SE 3 H411 Aquatic Chronic 2
N-Methyl-2-pyrrolidone	< 5%	CAS number: EINECS: REACH Registration number: CLP Classification:	872-50-4 212-828-1 01-2119472430-46 H315 Skin Irrit. 2 H319 Eye Irrit. 2 H335 STOT SE 3 H360D Repr. 1B

For the full text of the H & R phrases mentioned in this section, see section 16.

### 4 SECTION 4: First aid measures:

### 4.1 Description of first aid measures:

Always ask medical advice as soon as possible should serious or continuous disturbances occur.

**Skin contact:** remove contaminated clothing, rinse with plenty of water, if necessary seek medical

attention.

Eye contact: first prolonged rinsing with water (contact lenses to be removed if this is easily done)

then take to physician.

Ingestion: rinse mouth, do not induce vomiting, take to hospital immediately.

Inhalation: let sit upright, fresh air, rest and take to hospital.

### 4.2 Most important symptoms and effects, both acute and delayed:

**Skin contact:** redness, pain

Eye contact: redness, pain, bad looking

**Ingestion:** diarrhoea, headache, abdominal cramps, sleepiness, vomiting

**Inhalation:** sore throat, cough, shortness of breath, headache

### 4.3 Indication of any immediate medical attention and special treatment needed:

none

# 5 SECTION 5: Fire-fighting measures:

### 5.1 Extinguishing media:

CO2, foam, powder, sprayed water

### 5.2 Special hazards arising from the substance or mixture:

none

#### 5.3 Advice for firefighters:

Extinguishing agents to be avoided:

none

# 6 SECTION 6: Accidental release measures:

### 6.1 Personal precautions, protective equipment and emergency procedures:

Do not walk into or touch spilled substances and avoid inhalation of fumes, smoke, dusts and vapours by staying up windRemove any contaminated clothing and used contaminated protective equipment and dispose of it safely.

### 6.2 Environmental precautions:

do not allow to flow into sewers or open water.

### 6.3 Methods and material for containment and cleaning up:

Contain released substance, store into suitable containers. If possible remove by using absorbent material.

#### 6.4 Reference to other sections:

# 7 SECTION 7: Handling and storage:

### 7.1 Precautions for safe handling:

handle with care to avoid spillage.

### 7.2 Conditions for safe storage, including any incompatibilities:

keep in a sealed container in a closed, frost-free, ventilated room.

### 7.3 Specific end use(s):

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# 8 SECTION 8: Exposure controls/personal protection:

# 8.1 Control parameters:

Listing of the hazardous ingredients in section 3, of which the TLV value is known

N-Methyl-2-pyrrolidone 40 mg/m<sup>3</sup>

### 8.2 Exposure controls:

Inhalation protection:	if necessary, use an air-purifying face mask in case of respiratory hazards.	
Skin protection:	handling with Viton-gloves (EN 374). Breakthrough time: >480' Material thickness: 0,7 mm. Thoroughly check gloves before use. Take of the gloves properly without touching the outside with your bare hands. The manufacturer of the protective gloves has to be consulted about the suitability for a specific work station. Wash and dry your hands.	
Eye protection:	keep an eye-rinse bottle within reach. Tight-fitting safety goggles. Wear a face shield and protective suit in case of exceptional processing problems.	
Other protection:	impermeable clothing. The type of protective equipment depends on the concentration and amount of hazardous substances at the work station in question.	

# 9 SECTION 9: Physical and chemical properties:

### 9.1 Information on basic physical and chemical properties:

Melting point/melting range:

**Boiling point/Boiling range:**  $132 \, ^{\circ}\text{C} - 400 \, ^{\circ}\text{C}$ 

pH: pH 1% diluted in water:

Vapour pressure/20°C,:2 250 PaVapour density:not applicableRelative density, 20°C:0.9900 kg/lAppearance/20°C:liquidFlash point:176 °CFlammability (solid, gas):not applicable

Auto-ignition temperature: 210 °C

Upper flammability or explosive

limit, (Vol %):

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Lower flammability or explosive

limit, (Vol %):

Explosive properties: not applicable

Oxidising properties: not applicable

Decomposition temperature:

Solubility in water: not soluble

Partition coefficient: n- not applicable

octanol/water:

Odour: characteristic
Odour threshold: not applicable
Dynamic viscosity, 20°C: 10 mPa.s
Kinematic viscosity, 40°C: 10 mm²/s
Evaporation rate (n-BuAc = 1): 17.380

#### 9.2 Other information:

Volatile organic component (VOC): 0.29 % Volatile organic component (VOC): 0.791 g/l

Sustained combustion test: /

# 10 SECTION 10: Stability and reactivity:

### 10.1 Reactivity:

stable under normal conditions.

### 10.2 Chemical stability:

extremely high or low temperatures.

# 10.3 Possibility of hazardous reactions:

none

### 10.4 Conditions to avoid:

protect from sunlight and do not expose to temperatures exceeding + 50°C.

### 10.5 Incompatible materials:

acids, alkalines, oxidants, reductants

# 10.6 Hazardous decomposition products:

doesn't decompose with normal use

# 11 SECTION 11: Toxicological information:

### 11.1 Information on toxicological effects:

H302 Acute tox. 4: Harmful if swallowed.

**H317 Skin Sens. 1:** May cause an allergic skin reaction.

Calculated acute toxicity, ATE oral: 816.191 mg/kg

Calculated acute toxicity, ATE

dermal:

tris(2-chloro-1-methylethyl) phosphate	LD50 oral, rat: LD50 dermal, rabbit: LC50, Inhalation, rat, 4h:	500 mg/kg ≥ 5,000 mg/kg ≥ 50 mg/l
6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine,2-methyl-4,6-bis(methylthio)phenylene-1,3-diamine	LD50 oral, rat: LD50 dermal, rabbit: LC50, Inhalation, rat, 4h:	1,515 mg/kg ≥ 5,000 mg/kg ≥ 50 mg/l
Naphta heavy (high boiling point hydrogen treated)	LD50 oral, rat: LD50 dermal, rabbit: LC50, Inhalation, rat, 4h:	≥ 5,000 mg/kg ≥ 5,000 mg/kg ≥ 50 mg/l
N-Methyl-2-pyrrolidone	LD50 oral, rat: LD50 dermal, rabbit: LC50, Inhalation, rat, 4h:	3,600 mg/kg ≥ 5,000 mg/kg ≥ 50 mg/l

# 12 SECTION 12: Ecological information:

# 12.1 Toxicity:

tris(2-chloro-1-methylethyl) phosphate	LC50 (Fish):	98 mg/L (96h)
	NOEC (Fish):	9.8 mg/L (96h)
	EC50 (Daphnia):	131 mg/L (48h)
	NOEC (Daphnia):	33.5 mg/L (48h)
	EC50 (Algae):	82 mg/L (72h)
	NOEC (Algae):	13 mg/L (72h)
	EC50 (soil microorganisms	s): 784 mg/L (3h)
6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine,2-methyl-4,6-bis(methylthio)phenylene-1,3-diamine	LC50 (Fish):	42.3 mg/L (24h)
	EC50 (Daphnia):	1.1 mg/L (24h)
	EC50 (Algae):	1.79 mg/L (72h)
	NOEC (Algae):	1.85 mg/L (72h)
N-Methyl-2-pyrrolidone	LC50 (Fish):	> 500 mg/L (96h)
	NOEC (Fish):	500 mg/L (96h)
	EC50 (Daphnia):	1107 mg/L (96h)
	NOEC (Daphnia):	125 mg/L (72h)
	EC50 (Algae):	600.5 mg/L (72h)

# 12.2 Persistence and degradability:

No additional data available

# 12.3 Bioaccumulative potential:

No additional data available

# 12.4 Mobility in soil:

Water hazard class, WGK (AwSV):

Solubility in water: not soluble

### 12.5 Results of PBT and vPvB assessment:

No additional data available

#### 12.6 Other adverse effects:

No additional data available

# 13 SECTION 13: Disposal considerations:

#### 13.1 Waste treatment methods:

Draining into the sewers is not permitted. Removal should be carried out by licensed services. Possible restrictive regulations by local authority should always be adhered to.

# 14 SECTION 14: Transport information:

### 14.1 UN number:

3082

### 14.2 UN proper shipping name:

UN 3082 Environmentally hazardous substance, liquid, n.o.s. (mixture with 6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine,2-methyl-4,6-bis(methylthio)phenylene-1,3-diamine), 9, III, (E)

### 14.3 Transport hazard class(es):

Class(es): 9

Identification number of the 90

hazard:

14.4 Packing group:

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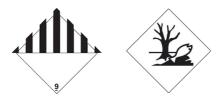
### 14.5 Environmental hazards:

environmentally hazardous

## 14.6 Special precautions for user:

Hazard characteristics: Risk to the aquatic environment and the sewerage system.

Additional guidance:



# 15 SECTION 15: Regulatory information:

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

Water hazard class, WGK (AwSV): 3

Volatile organic component (VOC): 0.295 %
Volatile organic component (VOC): 0.791 g/l

**Composition by regulation (EC)** Phosphates > 30%, Aliphatic hydrocarbons < 5%

648/2004:

### 15.2 Chemical Safety Assessment:

No data available

### 16 SECTION 16: Other information:

#### Legend to abbreviations used in the safety data sheet:

ADR: The European Agreement concerning the International Carriage of Dangerous

Goods by Road

BCF: Bioconcentration factor

CAS: Chemical Abstracts Service

**CLP:** Classification, Labelling and Packaging of chemicals

EINECS: European INventory of Existing Commercial chemical Substances

Nr.: number

PTB: persistent, toxic, bioaccumulative

**TLV:** Threshold Limit Value

**vPvB:** very persistent and very bioaccumulative substances

WGK: Water hazard class

WGK 1: slightly hazardous for water

WGK 2: hazardous for water

WGK 3: extremely hazardous for water

### Legend to the H Phrases used in the safety data sheet:

EUH066: Repeated exposure may cause skin dryness or cracking. H226 Flam. Liq. 3: Flammable liquid and vapour. H302 Acute tox. 4: Harmful if swallowed. H304 Asp. Tox. 1: May be fatal if swallowed and enters airways. H315 Skin Irrit. 2: Causes skin irritation. H317 Skin Sens. 1: May cause an allergic skin reaction. H319 Eye Irrit. 2: Causes serious eye irritation. H335 STOT SE 3: May cause respiratory irritation. H336 STOT SE 3: May cause drowsiness or dizziness. H360D Repr. 1B: May damage the unborn child. H410 Aquatic Chronic 1: Very toxic to aquatic life with long lasting effects. H411 Aquatic Chronic 2: Toxic to aquatic life with long lasting effects.

### Reason of revision, changes of following items:

Section: 9.2

### MSDS reference number:

ECM-107987,10

This safety information sheet has been compiled in accordance with annex II/A of the regulation (EU) No 2015/830. Classification has been calculated in accordance with European regulation 1272/2008 with their respective amendments. It has been compiled with the utmost care. We cannot, however, accept responsibility for damage, of any kind, that may be caused by using these data or the product concerned. To use this preparation for an experiment or a new application, the user must carry out a material suitability and safety study himself.