

## SAFETY DATA SHEET

Safety data sheet according to (EC) No. 1907/2006

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

### 1.1. Product identifier:

RUST SOLVENT

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

To remove rust from plastic and painted surfaces. Smear or spray Rust Solvent on the area and wait a moment before flushing with water. Use undiluted or eventually diluted with water.

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

Kemilux

Mykinesgøta 1 - P.O.Box 1231

FO-110 Tórshavn - Faroe Islands

Phone: +298 662000 - Fax +298 350831

Responsible person for the safety data sheet (e-mail): [altox@altox.dk](mailto:altox@altox.dk)

### 1.4. Emergency telephone number:

+298 662000 (within office hours)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture:

Corrosive liquid.

EC (67/548 or 1999/45): C;R35

CLP (1272/2008): Met. Corr. 1;H290 Skin Corr. 1A;H314

### 2.2. Label elements:

Contents: Phosphoric Acid



DANGER

H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage.

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

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

P303+P361+P353+P310: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

P501: Dispose of contents/container in accordance with applicable regulations.

### 2.3. Other hazards:

None known.

PBT/vPvB: No ingredients are PBT/vPvB, according to the criteria in REACH Annex XIII.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures:

%w/w	Substance name	CAS-no.	EC-no.	Index-no.	REACH reg.-no.	Classification
25-30	Phosphoric acid	7664-38-2	231-633-2	015-011-00-6	-	EC: C;R34 CLP: Skin Corr. 1B;H314
< 5	Alcohol ethoxylate, C <sub>10-16</sub>	-	Polymere	-	-	EC: Xn;R22 Xi;R38-41 CLP: Acute Tox. 4;H302 Skin Irrit. 2;H315 Eye Dam. 1;H318
< 5	Oxalic acid	144-62-7	205-634-3	607-006-00-8	-	EC: Xn;R21/22 Xi;R41 CLP: Acute Tox. 4;H302+H312 Eye Dam. 1;H318
< 5	Disodium Cocoamphodipropionate	68604-71-7	271-704-5	-	-	EC: Xi;R36 CLP: Eye Irrit. 2;H319

Wording of hazard statements - see section 16.

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## SECTION 4: First aid measures

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**4.1. Description of first aid measures:**

Inhalation: Move the affected person to fresh air. Keep at rest. If symptoms persist: Seek medical advice.

Skin contact: Remove all contaminated clothing. Wash skin with water and mild soap. Seek medical advice.

Eye contact: Immediately flush with water or physiological salt water for at least 15 minutes, holding eye lids open, remember to remove contact lenses, if any. Seek medical advice.

Ingestion: Rinse mouth and drink plenty of water. Do not induce vomiting. Seek medical advice.

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

Corrosion of skin, eyes, lungs and gastrointestinal tract.

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

In case of unconsciousness: Seek medical advice immediately. Show this safety data sheet to a physician or emergency ward.

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## SECTION 5: Firefighting measures

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**5.1. Extinguishing media:**

Not flammable.

**5.2. Special hazards arising from the substance or mixture:**

Not relevant (the product is not combustible).

**5.3. Advice for firefighters:**

When extinguishing surrounding fires use breathing apparatus with an independent source of air.

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## SECTION 6: Accidental release measures

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**6.1. Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment - see section 8. Avoid further spreading. Ventilate area of leak or spill.

**6.2. Environmental precautions:**

Do not empty into drains - see section 12. Inform appropriate authorities in accordance with local regulations.

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

Take up with absorbent material (e.g. general-purpose binder) and place in marked container for disposal. Clean with water.

Further handling of spillage - see section 13.

**6.4. Reference to other sections:**

See references above.

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## SECTION 7: Handling and storage

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**7.1. Precautions for safe handling:**

Avoid contact with skin, eyes and clothing. Provide adequate ventilation. Change contaminated clothes immediately. Wash contaminated skin immediately with water and mild soap. Required access to water and eye wash fountain.

**7.2. Conditions for safe storage, including any incompatibilities:**

Store in tightly closed original container. Keep in a dry, non-freezing and well ventilated place. Keep out of the reach of children.

**7.3. Specific end use(s):**

See section 1.

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## SECTION 8: Exposure controls/Personal protection

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**8.1. Control parameters:**

Substance:	TWA (8 hour):	STEL (15 min.):	Comments:
Orthophosphoric acid	1 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	-
Oxalic acid	1 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	-
DNEL/PNEC:	No CSR.		

**8.2. Exposure controls:**

Appropriate engineering controls:

Ensure adequate ventilation (e.g. turn on room ventilation or open windows if possible).

Personal protective equipment:

Inhalation: In case of working in not adequate ventilated areas, use an approved mask with a particle filter: P2 (EN140). The filter has a limited lifetime and must be changed. Read the instruction.

Skin: Wear protective gloves of neoprene or nitrile (> 0.3 mm) (EN374). It has not been possible to find data for breakthrough time. In case of spill on the glove it is recommended to change it after use.

Eyes: Tightly fitting safety goggles or face shield (EN166).

Environmental exposure controls: See section 6 and 13.

## SECTION 9: Physical and chemical properties

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

Appearance:	Clear colourless liquid
Odour:	Weak uncharacteristic odour
Odour threshold:	No available data
pH:	< 0.5 (concentrate), ~ 2 (dilution)
Melting point / freezing point (°C):	No available data
Initial boiling point and boiling range (°C):	~ 100
Decomposition temperature (°C):	No available data
Flash point (°C):	> 100
Evaporation rate:	No available data
Flammability (solid, gas):	Not relevant (liquid)
Upper/lower flammability or explosive limits (vol-%):	No available data
Vapour pressure (mbar, 25°C):	No available data
Vapour density (air=1):	No available data
Relative density (g/ml):	1.16
Solubility:	Completely soluble in water
Partition coefficient: n-octanol/water, Log K <sub>ow</sub> :	No available data
Auto-ignition temperature (°C):	No available data
Viscosity:	No available data
Explosive/Oxidising properties:	Not relevant
<b>9.2. Other information:</b>	None relevant

## SECTION 10: Stability and reactivity

### 10.1. Reactivity:

No available data

### 10.2. Chemical stability:

Stable under normal conditions (see section 7).

### 10.3. Possibility of hazardous reactions:

None known.

### 10.4. Conditions to avoid:

Excessive heating or freezing.

### 10.5. Incompatible materials:

Avoid contact with materials that contains chlorine, poisonous gas may be generated. Keep the product away from nylon and galvanized steel.

### 10.6. Hazardous decomposition products:

When heated to high temperatures (decomposition) toxic gasses are formed such as oxides of carbon.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects:

Hazard class	Data	Test	Data source
Acute toxicity:			
Inhalation	LC <sub>50</sub> (oral, rat) = 25.5 mg/m <sup>3</sup> (corrosion) (Phosphoric acid)	No info.	RTECS
Dermal	No available data.	-	-
Oral	LD <sub>50</sub> (oral, rat) = 1250 mg/kg (corrosion) (Phosphoric acid) LD <sub>50</sub> (oral, rat) = 300-2000 mg/kg (Alcohol ethoxylate, C <sub>10-16</sub> )	No info. OECD 401	RTECS ECB
Corrosion/irritation:	Severe irritation of skin, 100 mg/24H, rabbit (Phosphoric acid) Severe irritation, eye, rabbit (Alcohol ethoxylate, C <sub>10-16</sub> ) Eye irritation, rabbit (Disodium Cocoamphodipropionate)	Draize No info. No info.	IUCLID CESIO CESIO
Sensitization:	No available data.	-	-
CMR:	No available data on carcinogenicity or mutagenicity. No applicable data on reproductive effect.	- -	- -

Information on likely routes of exposure: Inhalation, skin and ingestion.

Symptoms:

Inhalation: Atomized product can irritate the upper respiratory tract. Symptoms can be throat pain, coughing and difficulty in breathing.

Skin: Corrosive with pain, blisters and sores. Degreases skin.

Eyes: Corrosive with redness, pain and blurred vision. May induce permanent damage of cornea.

Ingestion: Corrosive for the mucous membranes in mouth, throat and stomach. Symptoms can be nausea, stomach ache, vomiting and headache. Rapid fall in blood pressure may occur.

Chronic effects: Long term or repeated skin contact with splashes and vapours may degrease the skin and cause red, dry, cracked and thickened skin.

## SECTION 12: Ecological information

### 12.1. Toxicity:

Alcohol ethoxylate, C<sub>10-16</sub> is toxic in the aquatic environment.

Aquatic	Data	Test (Media)	Data source
Fish	LC <sub>50</sub> (Rainbow trout - 96 h) = 1-5 mg/l (Alcohol ethoxylate, C <sub>10-16</sub> )	OECD 203 (FW)	EPA Ecotox
Crustaceans	EC <sub>50</sub> (Daphnia magna - 48 h) = 3-12 mg/l (Alcohol ethoxylate, C <sub>10-16</sub> )	OECD 202 (FW)	EPA Ecotox
Algae	No available applicable data	-	-

### 12.2. Persistence and degradability:

The surfactants in the product pass the ultimate biodegradability test according to EC regulation for surfactants in detergents.

Alcohol ethoxylate, C<sub>10-16</sub> is readily biodegradable (>60% BOD, 28d (OECD 301B)).

### 12.3. Bioaccumulative potential:

Alcohol ethoxylate, C<sub>10-16</sub>:  $1 < \log K_{ow} < 3$  – moderate bioaccumulative.

### 12.4. Mobility in soil:

Alcohol ethoxylate, C<sub>10-16</sub>:  $\log K_{oc} \leq 15$  –large mobility in soil.

### 12.5. Results of PBT and vPvB assessment:

No ingredients are PBT/vPvB, according to the criteria in REACH Annex XIII.

### 12.6. Other adverse effects:

The mixture has strong acidity. May disturb the ecological balance.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods:

The mixture is to be considered as hazardous waste. Disposal should be according to local, state or national legislation.

Dispose of through authority facilities or pass to chemical disposal company.

EWC-code:

20 01 29 (mixture itself) and 15 02 02 (Inert material contaminated with the mixture)

## SECTION 14: Transport information

14.1. UN-no.: 3265

14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phosphoric acid)

14.3. Transport hazard class(es): 8

14.4. Packing group: III (ADR/RID)  
III (IMDG)

EMS: F-A, S-B

Stowage note: Category A

Segregation: NONE

14.5. Environmental hazards: None.

14.6. Special precautions for user: None.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not relevant.

## SECTION 15: Regulatory information

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

Other labelling information (648/2004/EC):

< 5% Nonionic surfactants, Amphoteric surfactants

### 15.2. Chemical Safety Assessment:

No CSR.

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**SECTION 16: Other information**

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**Hazard statements mentioned in section 2 and 3:**

R 21/22:	Harmful in contact with skin and if swallowed.
R 22:	Harmful if swallowed.
R 34:	Causes burns.
R 35:	Causes severe burns.
R 36:	Irritating to eyes.
R 38:	Irritating to skin.
R 41:	Risk of serious damage to eyes.
H302:	Harmful if swallowed.
H302+H312:	Harmful if swallowed or in contact with skin.
H314:	Causes severe skin burns and eye damage.
H315:	Causes skin irritation.
H318:	Causes serious eye damage.
H319:	Causes serious eye irritation.

**Abbreviations:**

CMR = Carcinogenicity, mutagenicity and reproductive toxicity.  
CSR = Chemical Safety Report  
DNEL = Derived No-Effect Level  
EC<sub>50</sub> = Effect Concentration 50 %  
FW = Fresh Water  
LC<sub>50</sub> = Lethal Concentration 50 %  
LD<sub>50</sub> = Lethal Dose 50 %  
PBT = Persistent, Bioaccumulative, Toxic  
PNEC = Predicted No-Effect Concentration  
vPvB = very Persistent, very Bioaccumulative

**Literature:**

EPA Ecotox = The US Environmental Protection Agency's database on ecotoxicological effects for chemicals.  
IUCLID = International Uniform Chemical Information Database.  
RTECS = Register of Toxic Effects of Chemical Substances.

**Training advice:**

No special training is required. However, the user should be well instructed in the execution of his/her task, be familiar with this Safety Data Sheet and have normal training in the use of personal protective equipment.

**Other information:**

The classification and labelling is based on extreme pH (pH < 2).

**Changes since the previous edition:**

Section 2, 3, 14

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