

# SAFETY DATA SHEET

In accordance with 1907/2006 Annex II (2015/830) and 1272/2008  
(All references to EU regulations and directives are abbreviated into only the numeric term)  
Issued 2016-06-21  
Version number 1.0



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

### 1.1. Product identifier

Trade name ALFA MARINE SP

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

Identified uses Alkaline cleaning agent

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

Company Josef Kränzle GmbH & Co. KG  
Rudolf-Diesel-Strasse 20  
D-89257 Illertissen  
Deutschland  
Telephone 07303/9605 250  
E-mail [vertrieb@kraenzle.com](mailto:vertrieb@kraenzle.com)  
Website [www.kraenzle.com](http://www.kraenzle.com)

### 1.4. Emergency telephone number

Acute cases: Call 112, request poison information.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Corrosive (Category 1B), H314

### 2.2. Label elements

Hazard pictogram



Signal word

Dange

Hazard statement

H314

Causes severe skin burns and eye

damage Precautionary statements

P280

Wear protective gloves, protective clothing and eye or face

protection P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303+P361+P353

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310

Immediately call a doctor

P501

Dispose of contents and container to authorised waste disposal facility

### 2.3. Other hazards

Not indicated.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Note that the table shows known hazards of the ingredients in pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

Constituent	Classification	Concentration
<b>SODIUM METASILICATE</b>		
CAS No: 6834-92-0 EC No: 229-912-9	Met Corr 1, Skin Corr 1B, Eye Dam 1, H314, H318, H335	< 2%

Index No: 014-010-00-8 REACH: 01-2119449811-37		
<b>FATTY ALCOHOL ALKOXYLATED</b>		
CAS No: 166736-08-9 EC No: 605-450-7	Acute Tox <i>4oral</i> , Eye Dam 1; H302, H318	<2 %
<b>POTASSIUM HYDROXIDE</b>		
CAS No: 1310-58-3 EC No: 215-181-3 Index No: 019-002-00-8 REACH: 01-2119487136-33	Acute Tox <i>4oral</i> , Skin Corr 1A; H302, H314	<2 %
<b>ISOTRIDECANOL ETHOXYLATE</b>		
CAS No: 69011-36-5 EC No: 500-241-6 REACH: 01-2119976362-32	Acute Tox <i>4oral</i> , Eye Dam 1; H302, H318	<1 %

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complements used in the calculation of the classification of this mixture, see Section 16b.

Contents according to 648/2004.

<5% Non-ionic surfactants.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures Generally

Never attempt to administer liquid, or anything else, to an unconscious person via the mouth.

#### Upon breathing in

Rinse nose and mouth with clean water. Let the person rest in a place with fresh air and seek medical advice if symptoms persist.

#### Upon eye contact

Remove contact lenses immediately if possible.

Flush immediately with luke-warm water for 15 - 20 minutes with wide-open eyes. Transport the injured person to a hospital immediately.

#### Upon skin contact

Remove contaminated clothes.

Wash with large quantities of water (emergency shower) and seek medical assistance.

#### Upon ingestion

Immediately drink a few glasses of water or milk.

DO NOT induce vomiting.

Seek medical attention immediately.

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

#### Generally

Chemical burns may occur.

#### Upon eye contact

Risk of permanent eye damage.

#### Upon ingestion

Ingestion triggers corrosion in oral cavity and pharynx, nausea and abdominal pain.

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

Symptomatic treatment.

## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

#### Recommended extinguishing agents

Foam/Water mist/Dry chemical powder/Carbon dioxide - Do not use concentrated water jet on burning product.

#### Unsuitable extinguishing agents

May not be extinguished with water dispersed under high pressure.

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

In case of fire, substances hazardous to health, or substances harmful in other respects, may be dispersed.

The product is not hazardous in the flammable sense.

### 5.3. Advice for fire-fighters

- Cool closed containers that were exposed to fire with water.
- In case of fire use a respirator mask.
- Wear full protective clothing.
- Protective measures should be taken regarding other material at the site of the fire.
- Evacuate all not-authorized personnel.

## SECTION 6: Accidental release measures

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

- Keep unauthorized and unprotected people at a safe distance.
- Note that there is a risk of slipping if product is leaking/spilling.
- Avoid contact with eyes.
- Use recommended safety equipment, see section 8.
- Ensure good ventilation.

### 6.2. Environmental precautions

- Avoid that larger spills reach drains, fields or waterways.
- Contact rescue service in case of release of larger quantities.
- No specific measures need to be taken in the event of normal use.

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

- Small spills can be wiped up with a cloth or similar. Then flush the spill site with water. Larger spills should first be covered with sand or earth and then be collected. Collected material should be disposed according to Section 13.

### 6.4. Reference to other sections

- See also section 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Do not inhale the fumes and avoid exposure to skin, eyes and clothing.
- Work in order to avoid spillage. If spillage does occur, address it immediately in accordance with the directions specified in Section 6 of this safety data sheet.
- Handle in premises with good ventilation.
- Take off work clothes and protective gear before meals.
- Do not eat, drink or smoke in premises where this product is stored.
- Store this product separately from food items and keep it out of the reach of children and pets.
- Read and follow the manufacturer's instructions.
- Do not mix with other products.
- Avoid open fire, hot items, sparks or other ignition sources.
- Wash your hands after using the product.
- Remove clothes which have been splattered.
- The usual precautions for handling chemicals should be observed.

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

- Store in tightly closed original package.
- The product should be stored in a manner which prevents hazards to health and the environment. Avoid exposure to humans and animals and do not discharge the product in a sensitive environment.
- Store at normal room temperature in a dry, well-ventilated area. Protect from freezing, direct sunlight, extreme temperature variations and excessive heat. Exposure to excessive heat (approx. 40°C, 105°F) will accelerate the ageing of the product and the product durability cannot be guaranteed. Freezing, direct sunlight and extreme temperature variations can affect the appearance and consistency of the product.
- Always use sealed and visibly labeled packages.

### 7.3. Specific end uses

- Not relevant.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. National limit values

#### POTASSIUM HYDROXIDE

##### United Kingdom

- Short term exposure limit (STEL) 2 mg/m<sup>3</sup>

##### DNEL

No data available.

#### **PNEC**

No data available.

#### **8.2. Exposure controls**

In terms of minimizing risks, attention must be paid to the health hazards (see Sections 2, 3 and 10) of this product or any of its ingredients according to EU directives 89/391 and 98/24 and national occupational legislation.

##### **8.2.1. Appropriate engineering controls**

Emergency showers and eye-rinsing facilities must be available at the workplace.

##### **Eye/face protection**

Use protective glasses, safety goggles, or a visor.

##### **Skin protection**

Use protective gloves of butyl rubber, Viton or fluorine rubber, or get advice from an occupational medical expert about alternative materials. Show this safety data sheet.

Protect all exposed skin from coming into contact with the product.

Choose a mechanical wear strength in line with the nature of the work in accordance to this pictogram with four digits that indicate resistance against abrasion, cutting effects, tear and puncture, where 1 is the lowest and 4 or 5 is the best.

##### **Respiratory protection**

Use proper protective breathing equipment in case of insufficient ventilation.

##### **8.2.3. Environmental exposure controls**

No specific measures needed.

## **SECTION 9: Physical and chemical properties**

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

a) Appearance	Form: Blue Liquid
b) Odour	no smell or uncharacteristic smell
c) Odour threshold	Not applicable
d) pH	13.2
e) Melting point/freezing point	Not indicated
f) Initial boiling point and boiling range	Not indicated
g) Flash point	Not indicated
h) Evaporation rate	Not indicated
i) Flammability (solid, gas)	Not applicable
j) Upper/lower flammability or explosive limits	Not indicated
k) Vapour pressure	Not indicated
l) Vapour density	Not indicated
m) Relative density	1.090 kg/L
n) Solubility	Solubility in water: Soluble
o) Partition coefficient: n-octanol/water	Not applicable
p) Auto-ignition temperature	Not indicated
q) Decomposition temperature	Not indicated
r) Viscosity	Not indicated
s) Explosive properties	Not applicable
t) Oxidising properties	Not applicable

### **9.2. Other information**

No data available

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

The product contains no substances which can lead to hazardous reactions at normal use.

### **10.2. Chemical stability**

The product is stable at normal storage and handling conditions.

### **10.3. Possibility of hazardous reactions**

No hazardous reactions known during normal use.

### **10.4. Conditions to avoid**

Avoid frost.

Protect from heat.

### **10.5. Incompatible materials**

Avoid contact with acids.

### **10.6. Hazardous decomposition products**

None under normal conditions.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

The main risk with this product is its corrosive properties.

#### Acute toxicity

The product is not classified as harmful to health.

Not classified as an acutely toxic substance.

#### ISOTRIDECANOL ETHOXYLATE

LD50 rabbit 24h: > 2000 mg/kg Dermally

LD50 rat 24h: 200 - 2000 mg/kg Orally

#### Skin corrosion/irritation

The product has been assessed as corroding regarding its pH value.

The product may cause corrosive wounds, burning and cracked skin.

#### Serious eye damage/irritation

Contact with the eyes may cause irreversible eye damage.

#### Respiratory or skin sensitisation

Hypersensitive reactions cannot be ruled out for persons who are overtly sensitive.

#### Germ cell mutagenicity

Not indicated.

#### Carcinogenicity

To the best of our knowledge, no carcinogenic effects have been reported for this product.

#### Reproductive toxicity

To the best of our knowledge, no mutagenic or otherwise genetic or reproductive toxic effects have been reported for this product.

#### STOT-single exposure

To the best of our knowledge this product does not affect discernment if used in the manner intended.

Irritation or burns may occur in the respiratory tract if inhaled or ingested.

#### STOT-repeated exposure

To the best of our knowledge, no chronic effects have been reported for this product.

#### Aspiration hazard

Not indicated.

## SECTION 12: Ecological information

### 12.1. Toxicity

The product is not to be labelled as an environmental hazard. However, it is not inconceivable that large emissions, or repeated small emissions, can have a harmful effect on the environment.

#### SODIUM METASILICATE

EC50 Freshwater water flea (*Daphnia magna*) 48 h: 33.53 mg/L

#### ISOTRIDECANOL ETHOXYLATE

LC50 Ide (*Leuciscus idus*) 96h: 1 - 10 mg/L

EC50 Freshwater water flea (*Daphnia magna*) 48 h: 1 - 10 mg/l

EC50 Algae 72 h: 1 - 10 mg/l

LC50 common carp (*Cyprinus carpio*) 96h: 1 - 10 mg/l

### 12.2. Persistence and degradability

The surfactants used in this product comply with the criteria for biodegradability under Regulation 648/2004.

### 12.3. Bioaccumulative potential

No information exists on bioaccumulation, but there is no cause for concern in respect of this.

### 12.4. Mobility in soil

No information about mobility in the nature exists but there is no reason to suppose the product to be ecologically harmful because of this.

### 12.5. Results of PBT and vPvB assessment

No chemical safety report has been executed.

### 12.6. Other adverse effects

The product is alkaline and may elevate pH locally, if released into water.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Waste handling of the product

The product is corrosive and the waste thereof should be considered hazardous (if this is not neutralised).

Also take local regulations for dealing with waste into account.

Not completely empty packaging can contain remnants of dangerous substances and should therefore be handled as hazardous waste according to the above. Completely empty packaging can be recycled.

Excess/old/contaminated product must be incinerated. Empty containers can be recycled if possible. The manufacturer is a member of REPA.

## SECTION 14: Transport information

### 14.1. UN number

Not Classified as dangerous goods

### 14.2. UN proper shipping name

Not applicable

### 14.3. Transport hazard class(es)

#### Class

Not applicable

### Classification code (ADR/RID)

Not applicable

### Subsidiary risk (IMDG)

Not applicable

### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

Not applicable

### 14.6. Special precautions for user

#### Tunnel restrictions

Not applicable

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

Not indicated.

### 15.2. Chemical safety assessment

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

## SECTION 16: Other information

### 16a. Indication of where changes have been made to the previous version of the safety data sheet

#### Revisions of this document

This is the first version

### 16b. Legend to abbreviations and acronyms used in the safety data sheet

#### Full texts for Hazard Class and Category Code mentioned in section 3

Eye Dam 1	Irreversible Eye Effects (Category 1)
Acute Tox 4 <sup>oral</sup>	Acute toxicity (Category 4)
oral) Skin Corr 1A	Corrosive (Category 1A)

### Comprehensive definition of the hazards mentioned in Section

#### 2 Met Corr 1

Corrosion rate on either steel or aluminium surfaces exceeding 6,25 mm per year at a test temperature of 55 °C when tested on both materials.

#### Eye Dam 1

If, when applied to the eye of an animal, a substance produces at least in one animal effects on the cornea, iris or conjunctiva that are not expected to reverse or have not fully reversed within an observation period of normally 21 days and/or at least in 2 of 3 tested animals, a positive response of:

- corneal opacity  $\geq 3$  and/or
- iritis  $> 1,5$

calculated as the mean scores following grading at 24, 48 and 72 hours after application of the test material.

#### Acute Tox 4<sup>oral</sup>

ATE (acute toxicity estimate) 300-2000 mg/kg.

#### Skin Corr 1A

On the basis of the results of animal testing, the substance is classified as corrosive, subcategory 1A according to 1272/2008 Annex I), i.e. visible necrosis through the epidermis and into the dermis, in at least 1 of 3 tested animals after exposure lasting

$\leq 3$  minutes. Corrosive reactions are typified by ulcers, bleeding, bloody scabs and, by the end of observation at 1 hour, by discolouration due to blanching of the skin, complete areas of alopecia and scars.

### Explanations of the abbreviations in Section 14

ADR European Agreement concerning the International Transport of Dangerous Goods by

Road RID Regulations concerning the International Transport of Dangerous Goods by Rail  
IMDG International Maritime Dangerous Goods Code  
ICAO International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)  
IATA The International Air Transport Association  
Tunnel restriction code: E; Passage through category E tunnels is strictly forbidden  
Transport category: 2; Highest total quantity per transported unit 333 kg or liters

#### **16c. Key literature references and sources for data**

##### **Sources for data**

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I, as updated to 2016-06-21.

Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

##### **Full texts for Regulations mentioned in this Safety Data Sheet**

1907/2006 Annex II (2015/830)	COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
1272/2008	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
648/2004	REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents
89/391	COUNCIL DIRECTIVE (89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work
98/24	COUNCIL DIRECTIVE 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC)
1907/2006	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

#### **16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification**

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I, where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI.

#### **16e. List of relevant hazard statements and/or precautionary statements**

##### **Full texts for hazard statements mentioned in section 3**

H314 Corrosive (Category 1A)

H318 Irreversible Eye Effects (Category 1)

H335 Specific target organ toxicity - single exposure; May cause respiratory irritation (Category 3

resp) H302 Acute toxicity (Category 4 oral)

#### **16f. Advice on any training appropriate for workers to ensure protection of human health and the environment**

##### **Warning for misuse**

This product can cause severe injuries if used improperly. Read and follow carefully the instructions in this safety sheet and other appropriate risk information. At professional use the employer is responsible for the staff being well aware of the risks.

##### **Other relevant information**