

## SAFETY DATA SHEET

### AKYPO LF 4

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

##### 1.1 Product identifier

**Product name** : AKYPO LF 4

This Safety Data Sheet relates to the material mentioned above by product name. The corresponding product is also available in compliance to RSPO rules. In this case the product name is followed by the suffix "MB", which can be found in related order documents, e.g. invoices and/or delivery notes. All these documents also include our RSPO certification number: CU-RSPO SCC-819585

**Chemical name** : Alkyl ether carboxylic acid

**Product code** : 325523 /2.08 /F SDE

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

**Identified uses** : Surfactant  
Metal cleaning.  
Manufacture of soaps and detergents. Use in metal working fluids/rolling oils

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

**Supplier** : Kao Chemicals GmbH  
Kupferstrasse 1  
D-46446 EMMERICH - GERMANY  
Tel +49 28227110 / Fax +49 2822711209

**E-mail:** : [psr@kao.es](mailto:psr@kao.es)

##### 1.4 Emergency telephone number - FOR EMERGENCY USE ONLY

For ALL TRANSPORT ACCIDENTS related with USA, call CHEMTREC at 800-424-9300 or 703-527-3887 for international collect calls.

For ALL TRANSPORT ACCIDENTS related with Mexico, call SETIQ at 800-681-9531 or (55) 5575-0838 or (55) 5575-0842

**Other countries Emergency telephone number ( 24h )** : +34 93 739 9445 Multi-language

For any questions or queries not related to emergencies, call the telephone number indicated in the supplier's information.

#### SECTION 2: Hazards identification

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

**Product definition** : Mixture

##### Classification

Skin Irrit. 2, H315

Eye Dam. 1, H318

See Section 16 for the full text H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

## 2.2 Label elements

### Hazard pictograms



### Signal word

: Danger

### Hazard statements

: Causes skin irritation.  
Causes serious eye damage.

### Precautionary statements

#### Prevention

: Wear protective gloves: > 8 hours (breakthrough time): butyl rubber. Wear eye or face protection: Recommended: safety glasses with side-shields. Wash thoroughly after handling.

#### Response

: Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. 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.

#### Storage

: Not applicable.

#### Disposal

: Not applicable.

### Hazardous ingredients

: Alkyl ether carboxylic acid  
Alkyl ether carboxylic acid

### Supplemental label elements

: Not applicable.

## 2.3 Other hazards

### Other hazards which do not result in classification

: None known.

## SECTION 3: Composition/information on ingredients

**Substance/mixture** : Mixture

Product/ingredient name	CAS no.	%	Classification	Type
Alkyl ether carboxylic acid Alkyl ether carboxylic acid	53563-70-5 105391-15-9	70 - 80 10 - 20	Eye Dam. 1, H318 Skin Irrit. 2, H315 Eye Dam. 1, H318  See Section 16 for the full text of the H statements declared above.	[1] [1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard  
 [2] Substance with a workplace exposure limit  
 [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII  
 [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII  
 [5] Substance of equivalent concern  
 [6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

#### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
 pain  
 watering  
 redness

<b>Inhalation</b>	: No specific data.
<b>Skin contact</b>	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
<b>Ingestion</b>	: Adverse symptoms may include the following: stomach pains

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

<b>Notes to physician</b>	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: None known.

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

<b>Hazards from the substance or mixture</b>	: In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous combustion products</b>	: Decomposition products may include the following materials: carbon dioxide carbon monoxide

### 5.3 Advice for firefighters

<b>Special precautions for fire-fighters</b>	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

<b>For non-emergency personnel</b>	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
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### 6.3 Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

### 6.4 Reference to other sections

- : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
<b>Europe</b> No exposure limit value known.	
<b>United States</b> No exposure limit value known.	
<b>Canada</b> No exposure limit value known.	
<b>Mexico</b> No exposure limit value known.	
<b>Brazil</b> No exposure limit value known.	
<b>Australia</b> No exposure limit value known.	

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

## 8.2 Exposure controls

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: safety glasses with side-shields

### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately

	estimated. > 8 hours (breakthrough time): butyl rubber
<b>Body protection</b>	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: overall, lab coat
<b>Other skin protection</b>	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: neoprene
<b>Respiratory protection</b>	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
<b>Environmental exposure controls</b>	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
<b>Remark</b>	: The penetration-time of the recommended gloves depends not only on the material. Also other factors may have influence on the penetration-time, as their thickness or the specific use or conditions (temperature). In any case, certificate materials (for example following EN 374) should be selected. Please ask your supplier, if the gloves are suitable for the intended use.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	: Liquid. [Clear. Liquid.]
<b>Color</b>	: Colorless. to Slight Yellowish. [Light]
<b>Odor</b>	: Fresh.
<b>Odor threshold</b>	: Not available.
<b>pH</b>	: 2 to 3 (Conc. (% w/w): 1) (20 °C)
<b>Melting point</b>	: <0 °C
<b>Initial boiling point and boiling range</b>	: >100°C
<b>Flash point</b>	: Closed cup: 188°C
<b>Evaporation rate (butyl acetate = 1)</b>	: Not available.
<b>Flammability (solid, gas)</b>	: Slightly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge. Non-flammable in the presence of the following materials or conditions: shocks and mechanical impacts and moisture.
<b>Burning time</b>	: Not applicable.
<b>Burning rate</b>	: Not applicable.
<b>Upper/lower flammability or explosive limits</b>	: Not available.
<b>Vapor density</b>	: Not available.
<b>Density</b>	: 1,05 g/cm³ [20°C]
<b>Specific gravity</b>	: 1.05
<b>Solubility(ies)</b>	: Easily soluble in the following materials: cold water. Partially soluble in the following materials: hot water.
<b>Partition coefficient: n-octanol/ water</b>	: Not available.
<b>Decomposition temperature</b>	: >100°C

- Viscosity ( Dynamic )** : 100 to 400 cP (20 °C)
- Explosive properties** : Slightly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.  
Non-explosive in the presence of the following materials or conditions: shocks and mechanical impacts and moisture.
- Oxidizing properties** : Not available.

## 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : The product is stable.
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : Slightly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.  
Non-flammable in the presence of the following materials or conditions: shocks and mechanical impacts and moisture.  
Slightly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.  
Non-explosive in the presence of the following materials or conditions: shocks and mechanical impacts and moisture.
- 10.5 Incompatible materials** : Non-reactive or compatible with the following materials: moisture.
- 10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Decomposition temperature** : >100 °C

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose
Alkyl ether carboxylic acid	LD50 Oral	Rat	>2000 mg/kg
Alkyl ether carboxylic acid	LD50 Oral	Rat	>2000 mg/kg

**Conclusion/Summary** : KAO Data.

#### Acute toxicity estimates

Route	ATE value
Not available.	

#### Irritation/Corrosion

##### Conclusion/Summary

- Skin** : Causes skin irritation. (OECD 439: In vitro Skin Irritation Test)
- Eyes** : Risk of serious damage to eyes.

Based on test results, sodium salt of active ingredient of this product (active matter in water):  
- at a concentration < 20% does not cause eye irritation or serious eye damage  
(Hazard category: not classified)

- Respiratory** : Not available.
- Sensitizer**



Product/ingredient name	Route of exposure	Species	Result
Alkyl ether carboxylic acid	skin	Mouse	Not sensitizing

**Conclusion/Summary**

**Skin** : Read across  
**Respiratory** : Not available.

**Mutagenicity**

Product/ingredient name	Test	Experiment	Result
Alkyl ether carboxylic acid	-	Experiment: In vitro Subject: Bacteria	Negative

**Conclusion/Summary** : No mutagenic effect. Read across

**Carcinogenicity**

**Conclusion/Summary** : No known significant effects or critical hazards.

**Reproductive toxicity**

**Conclusion/Summary** : No known significant effects or critical hazards.

**Teratogenicity**

**Conclusion/Summary** : No known significant effects or critical hazards.

**Specific target organ toxicity (single exposure)****Specific target organ toxicity (repeated exposure)****Potential acute health effects**

**Inhalation** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.  
**Skin contact** : Causes skin irritation.  
**Eye contact** : Causes serious eye damage.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Inhalation** : No specific data.  
**Ingestion** : Adverse symptoms may include the following:  
stomach pains  
**Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur  
**Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness

**Potential chronic health effects**

**Conclusion/Summary** : Not available.  
**General** : No known significant effects or critical hazards.  
**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.  
**Absorption** : Not available.  
**Distribution** : Not available.  
**Metabolism** : Not available.  
**Elimination** : Not available.  
**Other information** : Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure	Test
Alkyl ether carboxylic acid	Acute LC50 >100 mg/l	Fish	96 hours	-
Alkyl ether carboxylic acid	Acute EC50 >100 mg/l	Algae	72 hours	OECD 201 Alga, Growth Inhibition Test
	Acute EC50 67 mg/l	Daphnia	48 hours	OECD 202 <i>Daphnia</i> sp. Acute Immobilization Test and Reproduction Test
	Acute LC50 >100 mg/l	Fish	96 hours	OECD 203 Fish, Acute Toxicity Test

**Conclusion/Summary** : Read across

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result
Alkyl ether carboxylic acid	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	>90 % - Readily - 28 days

**Conclusion/Summary** : KAO Data.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Alkyl ether carboxylic acid	-	-	Readily
Alkyl ether carboxylic acid	-	-	Readily

### 12.3 Bioaccumulative potential

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

**12.5 Other adverse effects** : No known significant effects or critical hazards.

**Other information** :

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

#### Packaging

- Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

	ADR/RID	DOT Classification	IMDG	IATA
<b>14.1 UN number</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>14.2 UN proper shipping name</b>	-	-	-	-
<b>14.3 Transport hazard class(es)</b>	-	-	-	-
<b>14.4 Packing group</b>	-	-	-	-
<b>14.5 Environmental hazards</b>	No.	No.	No.	No.
<b>Additional information</b>	-  <u>ADR/RID Classification Code</u>	-	-	-

- 14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

- 14.7 Transport in bulk according to IMO instruments** : Not available.

## SECTION 15: Regulatory information

### National Inventory List :

This refers to country inventory status or Kao notifications to specific country inventories. Some countries may have additional importation requirements.

- Australia** : All components are listed or exempted.
- Canada** : All components are listed or exempted.
- China** : All components are listed or exempted.
- Japan** : **Japan inventory (ENCS):** All components are listed or exempted.  
**Japan inventory (ISHL):** All components are listed or exempted.
- New Zealand** : All components are listed or exempted.

**Republic of Korea** : All components are listed or exempted.  
**Taiwan** : All components are listed or exempted.  
**United States** : All components are active or exempted.

*United States - Listed and or Active means TSCA active*

#### California Prop. 65

dichloroacetic acid (CAS 79-43-6)  
 1,4-dioxane (CAS 123-91-1)  
 ethylene glycol (CAS 107-21-1)  
 nickel (CAS 7440-02-0)

## **SECTION 16: Other information**

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate

#### Classification

Skin Irrit. 2, H315

Eye Dam. 1, H318

Classification	Justification
Skin Irrit. 2, H315 Eye Dam. 1, H318	Calculation method Calculation method

**Full text of abbreviated H statements** : H315 Causes skin irritation.  
 H318 Causes serious eye damage.

**Full text of classifications** : Eye Dam. 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
 Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

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#### Notice to reader

*The information in this SDS is based on the present state of our knowledge and on current laws. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.*