

**SAFETY DATA SHEET****Kalkfjerner PrimeSource Ren 55**

The safety data sheet is in accordance with 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)

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

Date issued 19.09.2012

Revision date 26.09.2018

**1.1. Product identifier**

Product name Kalkfjerner PrimeSource Ren 55

Article no. 100505, 100506

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

Product group Acidic descaler.

Relevant identified uses  
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites  
SU22 Professional uses: publicly accessible (administration, education, entertainment, services, craftsmen)  
PC35 Washing and cleaning products (including solvent based products)  
PROC10 Roller application or brushing  
ERC8A Wide dispersive indoor use of processing aids in open systems

Uses advised against No specific uses advised against are identified.

**1.3. Details of the supplier of the safety data sheet****Downstream user**

Company name MultiLine A/S

Office address Alsvej 14, 8940 Randers SV

Postal address Kirkebjergvej 17

Postcode DK-4180

City Sorø

Country Danmark

Telephone number +45 7010 7700

Email [psa@multiline.dk](mailto:psa@multiline.dk)

Website <http://www.multiline.dk>

## 1.4. Emergency telephone number

Emergency telephone

Description: UK: NHS: 111  
 EI: National Poisons Information Centre, 24/7: 01 809 2166

## SECTION 2: Hazards identification

### 2.1. Classification of substance or mixture

Classification according to  
 Regulation (EC) No 1272/2008  
 [CLP / GHS]

Skin Corr. 1B; H314

Eye Dam. 1; H318

Substance / mixture hazardous  
 properties

For further information, please refer to section 11.

Additional information on  
 classification

The informations stated in this MSDS, applies for the concentrated product. See  
 Sec. 16, for informations regarding recommended user solutions

### 2.2. Label elements

#### Hazard pictograms (CLP)



Composition on the label

Methanesulphonic acid

Signal word

Danger

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P280 Wear protective gloves / protective clothing / eye protection / face  
 protection.  
 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 POISON CENTER or doctor / physician.

### 2.3. Other hazards

Physicochemical effects

Ved kontakt med klorholdige stoffer kan der udvikles giftige gasser. Udvikler  
 kraftig varme ved kontakt med basiske (alkaliske) stoffer, risiko for stødkogning  
 (opsprøjt).

Health effect

Corrosive to skin and eyes. May cause permanent damage to the eyes, especially  
 if the product is not washed away IMMEDIATELY. See section 11 for additional  
 information on health hazards.

Environmental effects

Substantial amounts of the product may lead to a local change in acidity in small  
 water systems which may have adverse effects on aquatic organisms.  
 This product does not contain any PBT or vPvB substances.

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

Substance	Identification	Classification	Contents
Methane sulphonic acid	CAS No.: 75-75-2 EC No.: 200-898-6 Index No.: 607-145-00-4 REACH Reg. No.: 01-2119491166-34-xxxx	Skin Corr 1B; H314 Met. Corr. 1; H290 Acute tox. 4; H302 Acute tox. 4; H312 Eye Dam. 1; H318 STOT SE3; H335	5 - 15 %
D-Glucopyranose, oligomers, decyl octyl glycosides : D-Glucopyranose, oligomeric, C10-16-alkyl glycosides (1:1)	CAS No.: 110615-47-9, 68515-73-1 REACH Reg. No.: 01- 2119488530-36, 01- 2119489418-23	Eye Dam. 1; H318 Skin Irrit. 2; H315 Additional information on classification: SCL: ≤10% No classification. >10% Eye Dam. 1	1 - 5 %
Citric acid, monohydrate	CAS No.: 5949-29-1 EC No.: 201-069-1 REACH Reg. No.: 01-2119457026-42-xxxx	Eye Irrit. 2; H319	1 - 5 %
Isotridecanoethoxylate	CAS No.: 69011-36-5 EC No.: n.a.	Acute tox. 4; H302 Eye Dam. 1; H318 Additional information on classification: SCL: <10% Eye Irr.2; ≥10% Eye Dam. 1	1 - 5 %
Substance comments	Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents: <5%: nonionic surfactant , The full text for all hazard statements is displayed in section 16.		

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General	Remove affected person from source of contamination.
Inhalation	Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring these instructions.
Skin contact	Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention if any discomfort continues.
Eye contact	Important! Immediately rinse with water for at least 15 minutes. May cause permanent damage if eye is not immediately irrigated. Make sure to remove any contact lenses from the eyes before rinsing. Immediately transport to hospital or eye specialist. Continue flushing during transport to hospital.
Ingestion	Immediately rinse mouth and drink plenty of water. Call an ambulance. Bring along these instructions. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not give victim anything to drink if he is unconscious.
Recommended personal protective equipment for first aid responders	Wear necessary protective equipment. For personal protection, see section 8.

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

Acute symptoms and effects	Strongly corrosive. May cause deep tissue damage. Strongly corrosive. Causes severe burns and serious eye damage. Immediate first aid is imperative.
Delayed symptoms and effects	The etching penetrates deeply into the tissue and is first noticed after a while.

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

Other information	In case of unconsciousness, ingestion or eye contact: Immediately call a doctor / ambulance. Show this safety data sheet.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
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### 5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	This product is not flammable. During fire, gases hazardous to health may be formed.
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### 5.3. Advice for firefighters

Personal protective equipment	Wear necessary protective equipment. For personal protection, see section 8.
Fire fighting procedures	Reference is made to the company fire procedure. If risk of water pollution occurs, notify appropriate authorities. Avoid breathing fire vapours.

## SECTION 6: Accidental release measures

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

Personal protection measures	Look out! The product is corrosive. Use protective gloves, goggles and suitable protective clothing. For personal protection, see section 8.
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### 6.2. Environmental precautions

Environmental precautionary measures	Avoid discharge into water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.
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### 6.3. Methods and material for containment and cleaning up

Cleaning method	Smaller quantities of residue may be collected by an absorbent. Dam and absorb spillage with sand, sawdust or other absorbent. Wash contaminated area with water.
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### 6.4. Reference to other sections

Other instructions	See section 8 and section 13.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Handling	Avoid spilling, skin and eye contact. Use work methods which minimize spreading
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of vapours, dust, smoke, aerosols, splashes etc. to the extent technically possible. Do not mix with Chlorine.

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

Storage Store in tightly closed original container. Keep away from food, drink and animal feeding stuffs.

### Conditions for safe storage

Storage temperature Value: - 5 - 35 °C

Storage stabilit Durability: 36 months.

## 7.3. Specific end use(s)

Specific use(s) The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

Substance	Identification	Value	TWA Year
Methane sulphonic acid	CAS No.: 75-75-2		
D-Glucopyranose, oligomers, decyl octyl glycosides :	CAS No.: 110615-47-9, 68515-73-1		
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides (1:1)			
Alkylpolyglycoside C10-16	CAS No.: 110615-47-9		
Alkylpolyglycoside	CAS No.: 68515-73-1		
Citric acid, monohydrate	CAS No.: 5949-29-1		
Isotridecanoethoxylate	CAS No.: 69011-36-5		
Other Information about threshold limit values	No data recorded.		

### DNEL / PNEC

Substance	Methane sulphonic acid
DNEL	<p><b>Group:</b> Professional  <b>Route of exposure:</b> Lang sigt (gentages) - Indånding - Lokal effekt  <b>Value:</b> 2,89 mg/m<sup>3</sup>  <b>Comments:</b> Supplier MSDS</p> <p><b>Group:</b> Professional  <b>Route of exposure:</b> Lang sigt (gentages) - Dermal - Systemisk virkning  <b>Value:</b> 19,44 mg/kg  <b>Comments:</b> Supplier MSDS</p> <p><b>Group:</b> Consumer  <b>Route of exposure:</b> Lang sigt (gentages) - Dermal - Systemisk virkning  <b>Value:</b> 8,33 mg/kg  <b>Comments:</b> Supplier MSDS</p> <p><b>Group:</b> Consumer  <b>Route of exposure:</b> Kort sigt (akut) - Indånding - Systemisk virkning</p>

	<p><b>Value:</b> 1,44 mg/m<sup>3</sup> <b>Comments:</b> Supplier MSDS</p> <p><b>Group:</b> Consumer <b>Route of exposure:</b> Lang sigt (gentages) - Indånding - Systemisk virkning <b>Value:</b> 1,44 mg/m<sup>3</sup> <b>Comments:</b> Supplier MSDS</p>
PNEC	<p><b>Route of exposure:</b> Water <b>Value:</b> 0,012 mg/l <b>Comments:</b> Fresh water, Supplier MSDS</p> <p><b>Route of exposure:</b> Sewage treatment plant STP <b>Value:</b> 100 mg/l <b>Comments:</b> Supplier MSDS</p> <p><b>Route of exposure:</b> Water <b>Value:</b> 0,0012 mg/l <b>Comments:</b> Sea water, Supplier MSDS Fresh water, Supplier MSDS</p> <p><b>Route of exposure:</b> Air <b>Value:</b> 0,12 mg/l <b>Comments:</b> Supplier MSDS</p> <p><b>Route of exposure:</b> Sediment <b>Value:</b> 0,0251 mg/kg <b>Comments:</b> Fresh water, Supplier MSDS Sea water, Supplier MSDS</p> <p><b>Route of exposure:</b> Soil <b>Value:</b> 0,00183 mg/kg <b>Comments:</b> Supplier MSDS</p>
Substance	Alkylpolyglycoside C10-16
DNEL	<p><b>Group:</b> Consumer <b>Route of exposure:</b> Long term (repeated) - Dermal - Systemic effect <b>Value:</b> 357000 mg/kg <b>Comments:</b> Supplier MSDS</p> <p><b>Group:</b> Consumer <b>Route of exposure:</b> Long term (repeated) - Oral - Systemic effect <b>Value:</b> 35,7 mg/kg <b>Comments:</b> Supplier MSDS</p> <p><b>Group:</b> Consumer <b>Route of exposure:</b> Long term (repeated) - Inhalation - Systemic effect <b>Value:</b> 124 mg/m<sup>3</sup> <b>Comments:</b> Supplier MSDS</p> <p><b>Group:</b> Worker <b>Route of exposure:</b> Long term (repeated) - Dermal - Systemic effect <b>Value:</b> 595000 mg/kg <b>Comments:</b> Supplier MSDS</p> <p><b>Group:</b> Worker <b>Route of exposure:</b> Long term (repeated) - Inhalation - Systemic effect <b>Value:</b> 420 mg/m<sup>3</sup></p>

PNEC

**Comments:** Supplier MSDS**Route of exposure:** Water**Value:** 0,176 mg/l**Comments:** Fresh Water, Supplier MSDS**Route of exposure:** Soil**Value:** 0,654 mg/kg**Comments:** Supplier MSDS**Route of exposure:** Sediment**Value:** 0,152 mg/kg**Comments:** Sea Water, Supplier MSDS**Route of exposure:** Sediment**Value:** 1516 mg/kg**Comments:** Fresh Water, Supplier MSDS**Route of exposure:** Sewage treatment plant STP**Value:** 560 mg/l**Comments:** Supplier MSDS**Route of exposure:** Air**Value:** 0,27 ml/l**Comments:** Supplier MSDS**Route of exposure:** Water**Value:** 0,0176 mg/l**Comments:** Sea Water, Supplier MSDS

Substance

Alkylpolyglycoside

DNEL

**Group:** Consumer**Route of exposure:** Long term (repeated) - Oral - Systemic effect**Value:** 35,7 mg/kg**Group:** Consumer**Route of exposure:** Long term (repeated) - Dermal - Systemic effect**Value:** 357000 mg/kg**Group:** Consumer**Route of exposure:** Long term (repeated) - Inhalation - Systemic effect**Value:** 124 mg/m<sup>3</sup>**Group:** Worker**Route of exposure:** Long term (repeated) - Dermal - Systemic effect**Value:** 595000 mg/kg**Group:** Worker**Route of exposure:** Long term (repeated) - Inhalation - Systemic effect**Value:** 420 mg/m<sup>3</sup>

PNEC

**Route of exposure:** Water**Value:** 0,176 mg/l**Comments:** Fresh water**Route of exposure:** Water**Value:** 0,0176 mg/l

**Comments:** Sea water

**Route of exposure:** Sewage treatment plant STP

**Value:** 560 mg/l

**Route of exposure:** Sediment

**Value:** 1516 mg/kg

**Comments:** Fresh water

**Route of exposure:** Sediment

**Value:** 0,152 mg/kg

**Comments:** Sea water

**Route of exposure:** Soil

**Value:** 0,654 mg/kg

**Value:** 0,27 mg/l

**Comments:** Intermittent release.

## 8.2. Exposure controls

### Safety signs



### Precautionary measures to prevent exposure

Technical measures to prevent exposure

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. An eye wash bottle must be available at the work site.

### Eye / face protection

Suitable eye protection

Wear approved safety goggles. (EN 166).

### Hand protection

Skin- / hand protection, long term contact

Use protective gloves made of: Nitrile. Neoprene. Butyl rubber. (EN 374)

Hand protection, comments

Breakthrough time for nitrile rubber, neoprene and butyl rubber is approx. 3 hours. The recommendation is a qualified estimate based on knowledge of the components. Elastic gloves stretch when used as glove thickness and thus the breakthrough time reduced. The EN 374-3 standard test is performed at 23°C, but the practical temperature of the glove is approx. 35°C. The breakthrough time of the different glove guides, is therefor reduced by a factor 3.

### Skin protection

Additional skin protection measures

Wear apron or protective clothing in case of contact.



## Respiratory protection

Respiratory protection necessary at Under normal conditions of use respiration protection should not be required.

## Thermal hazards

Thermal hazards See section 5.

## Appropriate environmental exposure control

Environmental exposure controls See section 6.

# SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state	Fluid.
Colour	Colourless.
Odour	No characteristic odour.
Odour limit	Comments: Not relevant.
pH	Status: In delivery state Value: < 1,0  Status: In aqueous solution Value: ~ 7,0 Concentration: 0,1 %
Melting point / melting range	Comments: Not relevant.
Boiling point / boiling range	Comments: Not relevant.
Evaporation rate	Comments: Not relevant.
Flammability (solid, gas)	Not determined.
Explosion limit	Comments: Not relevant.
Vapour pressure	Comments: Not relevant.
Bulk density	Value: ~ 1,05 kg/l
Solubility	Comments: Completely soluble in water.
Partition coefficient: n-octanol/ water	Comments: Not determined.
Spontaneous combustability	Comments: Not relevant.
Decomposition temperature	Comments: Not relevant.
Viscosity	Value: < 50 mPa s
Explosive properties	Not explosive.
Oxidising properties	Does not meet the criteria for oxidising.

## 9.2. Other information

### Other physical and chemical properties

Comments No data recorded.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

Stability Stable under normal temperature conditions and recommended use.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Liberates toxic gases when mixed with chlorine containing products. Reacts with alkalis and generates heat. Reacts strongly with water. Do not add water directly to the product. It may cause a violent reaction.

### 10.4. Conditions to avoid

Conditions to avoid Strong alkalis. Chlorine containing products. Corrodes aluminum and other light metals, as well as zinc, brass, lead, tin, etc.

### 10.5. Incompatible materials

Materials to avoid Alkali-sensitive metals such as aluminium, tin, lead and zinc and alloys with these metals.

### 10.6. Hazardous decomposition products

Hazardous decomposition products In case of fire, toxic gases (CO, CO<sub>2</sub>, NO<sub>x</sub>) may be formed.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Substance Alkylpolyglycoside C10-16

Acute toxicity  
**Type of toxicity:** Acute  
**Effect tested:** LD50  
**Route of exposure:** Oral  
**Value:** > 2000 mg/kg  
**Comments:** Supplier MSDS

**Type of toxicity:** Acute  
**Effect tested:** LD50  
**Route of exposure:** Dermal  
**Value:** > 2000 mg/kg  
**Test reference:** OECD 402  
**Comments:** Supplier MSDS

Substance Alkylpolyglycoside

Acute toxicity  
**Type of toxicity:** Acute  
**Effect tested:** LD50

	<p><b>Route of exposure:</b> Oral  <b>Value:</b> &gt; 5000 mg/kg  <b>Test reference:</b> OECD Guideline 401</p> <p><b>Type of toxicity:</b> Acute  <b>Effect tested:</b> LD50  <b>Route of exposure:</b> Dermal  <b>Value:</b> &gt; 2000 mg/kg  <b>Test reference:</b> OECD Guideline 402</p>
Substance	Citric acid, monohydrate
Acute toxicity	<p><b>Type of toxicity:</b> Acute  <b>Effect tested:</b> LD50  <b>Route of exposure:</b> Oral  <b>Value:</b> 3000 mg/kg  <b>Animal test species:</b> Rat</p> <p><b>Type of toxicity:</b> Acute  <b>Effect tested:</b> LD50  <b>Route of exposure:</b> Oral  <b>Value:</b> 5400 mg/kg  <b>Animal test species:</b> Mice</p>
Substance	Isotridecanoethoxylate
Acute toxicity	<p><b>Type of toxicity:</b> Acute  <b>Effect tested:</b> LD50  <b>Route of exposure:</b> Oral  <b>Value:</b> 500-2000 mg/kg  <b>Animal test species:</b> Rat  <b>Test reference:</b> OECD 423  <b>Comments:</b> Supplier MSDS</p>
Other toxicological data	Toxicological tests on the product has not been performed.

## Other information regarding health hazards

Assessment of acute toxicity, classification	No evidence for acute toxicity.
Substance	D-Glucopyranose, oligomers, decyl octyl glycosides : D-Glucopyranose, oligomeric, C10-16-alkyl glycosides (1:1)
Eye damage or irritation, test results	<p><b>Toxicity type:</b> Eye irritation  <b>Method:</b> OECD 437  <b>Evaluation result:</b> Not eye irritant  <b>Comments:</b> 10% active content</p>
Inhalation	Aerosols may be corrosive. Inhalation may cause: Serious damage to the lining of nose, throat and lungs.
Skin contact	Strongly corrosive. May cause deep tissue damage.
Eye contact	Strongly corrosive. Causes severe burns. Immediate first aid is imperative. May cause permanent damage to the eyes, especially if the product is not washed away IMMEDIATELY.
Ingestion	Strongly corrosive. Even small amounts may be fatal. Symptoms are severe burning pains in mouth, throat and stomach.

Sensitisation	No evidence for respiratory nor skin sensitization.
Mutagenicity	No evidence for germ cell mutagenicity.
Carcinogenicity, other information	No evidence for carcinogenicity.
Reproductive toxicity	No evidence for reproductive toxicity.
Assessment of specific target organ SE, classification	No evidence for STOT-single exposure.
Assessment of specific target organ toxicity RE, classification	No evidence for STOT-repeated exposure.
Assessment of aspiration hazard, classification	No evidence for aspiration hazard.

## Symptoms of exposure

Symptoms of overexposure	No specific symptoms noted.
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## SECTION 12: Ecological information

### 12.1. Toxicity

Substance	Methane sulphonic acid
Acute aquatic, fish	<b>Value:</b> 10 - 100 mg/l <b>Test duration:</b> 96h <b>Species:</b> Oncorhynchus mykiss <b>Method:</b> LC50, OECD 203 <b>Test reference:</b> Supplier MSDS
Substance	Alkylpolyglycoside C10-16
Acute aquatic, fish	<b>Value:</b> > 10 - 100 mg/l <b>Method:</b> LC50 <b>Test reference:</b> Supplier MSDS
Substance	Alkylpolyglycoside
Acute aquatic, fish	<b>Value:</b> > 100 mg/l <b>Method:</b> LC50 <b>Test reference:</b> DIN EN ISO 7346-2
Substance	Citric acid, monohydrate
Acute aquatic, fish	<b>Value:</b> 440-760 mg/L <b>Test duration:</b> 96h <b>Species:</b> Leuciscus idus <b>Method:</b> LC50
Substance	Isotridecanoethoxylate
Acute aquatic, fish	<b>Value:</b> 1 - 10 mg/l <b>Test duration:</b> 96h <b>Species:</b> Cyprinus carpio <b>Method:</b> LC50 - OECD TG 203
Substance	Methane sulphonic acid
Acute aquatic, algae	<b>Value:</b> 10 - 100 mg/l <b>Test duration:</b> 72h

Substance	<p><b>Species:</b> Selenastrum capricomutum  <b>Method:</b> EC50, OECD 201  <b>Test reference:</b> Supplier MSDS</p>
Acute aquatic, algae	Alkylpolyglycoside
Substance	<p><b>Value:</b> 10 - 100 mg/l  <b>Method:</b> EC50  <b>Test reference:</b> 88/302/EEC, part C, p89</p>
Acute aquatic, algae	Citric acid, monohydrate
Substance	<p><b>Value:</b> 640 mg/L  <b>Test duration:</b> 168h  <b>Species:</b> Scenedesmus quadricauda  <b>Method:</b> EC0</p>
Acute aquatic, algae	Isotridecanoethoxylate
Substance	<p><b>Value:</b> 1 - 10 mg/l  <b>Test duration:</b> 72h  <b>Species:</b> Desmodesmus subspicatus  <b>Method:</b> EC50 - OECD TG 201</p>
Acute aquatic, Daphnia	Methane sulphonic acid
Substance	<p><b>Value:</b> 10 - 100 mg/l  <b>Test duration:</b> 48h  <b>Species:</b> Daphnia Magna  <b>Method:</b> EC50, OECD 202  <b>Test reference:</b> Supplier MSDS</p>
Acute aquatic, Daphnia	Alkylpolyglycoside
Substance	<p><b>Value:</b> &gt; 100 mg/l  <b>Method:</b> EC50  <b>Test reference:</b> OECD Guideline 202, part 1</p>
Acute aquatic, Daphnia	Citric acid, monohydrate
Substance	<p><b>Value:</b> 120 mg/L  <b>Test duration:</b> 72h  <b>Species:</b> Daphnia Magna  <b>Method:</b> EC100</p>
Acute aquatic, Daphnia	Isotridecanoethoxylate
Substance	<p><b>Value:</b> 1 - 10 mg/l  <b>Test duration:</b> 48h  <b>Species:</b> Daphnia magna  <b>Method:</b> EC50 - OECD TG 202</p>
Ecotoxicity	The product is not expected to be hazardous to the environment. May lead to a local change in acidity in the aquatic environment which may have adverse effects on aquatic organisms.
Aquatic, comments	No data available for the product.

## 12.2. Persistence and degradability

Substance	Methane sulphonic acid
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Biodegradability	<b>Value:</b> > 70 % <b>Method:</b> OECD 301A
Substance	Alkylpolyglycoside
Biodegradability	<b>Value:</b> > 60% <b>Method:</b> OECD 301B; ISO 9439; 92/69/EØF, C 4-C <b>Test period:</b> 28d
Substance	Citric acid, monohydrate
Biodegradability	<b>Value:</b> 97% <b>Method:</b> OECD 301B <b>Test period:</b> 28d
Substance	Isotridecanoethoxylate
Biodegradability	<b>Value:</b> > 60% <b>Method:</b> OECD 301B <b>Test period:</b> 28 d
Substance	Alkylpolyglycoside
Chemical oxygen demand (COD)	<b>Value:</b> 1210mg/g
Substance	Isotridecanoethoxylate
Chemical oxygen demand (COD)	<b>Value:</b> 2100 mg O <sub>2</sub> /g
Persistence and degradability, comments	The product is easily biodegradable.

### 12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

### 12.4. Mobility in soil

Mobility The product is water soluble and may spread in water systems.

### 12.5. Results of PBT and vPvB assessment

PBT assessment results Not Classified as PBT/vPvB by current EU criteria.

### 12.6. Other adverse effects

Environmental details, summation For this product no classification is required for environmental hazards.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Specify the appropriate methods of disposal	Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point. Dispose of waste and residues in accordance with local authority requirements. -
EWC waste code	EWC waste code: 0706 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics Classified as hazardous waste: Yes

EWL packing	EWC waste code: 0706 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics Classified as hazardous waste: Yes
Other information	When handling waste, consideration should be made to the safety precautions applying to handling of the product. Waste code applies to product remnants in pure form.

## SECTION 14: Transport information

### 14.1. UN number

ADR / RID / ADN	3265
IMDG	3265
ICAO / IATA	3265

### 14.2. UN proper shipping name

Proper shipping name english ADR / RID / ADN	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
ADR / RID / ADN	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Technical name / danger releasing substance ADR / RID / ADN	Methansulfonsyre
IMDG	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Technical name / danger releasing substance IMDG	Methanesulphonic acid
ICAO / IATA	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Technical name / danger releasing substance ICAO	Methanesulphonic acid

### 14.3. Transport hazard class(es)

ADR / RID / ADN	8
Classification code ADR / RID / ADN	C3
IMDG	8
ICAO / IATA	8

### 14.4. Packing group

ADR / RID / ADN	III
IMDG	III
ICAO / IATA	III

### 14.5. Environmental hazards

### 14.6. Special precautions for user

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Product name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
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### Additional information

ADR / RID / ADN hazard label	8
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IMDG Hazard label	8
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ICAO / IATA Hazard label	8
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Additional information	Not relevant.
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### ADR / RID - Other information

Tunnel restriction code	E
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Transport category	3
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Hazard No.	80
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RID other applicable information	80
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### IMDG / ICAO / IATA Other information

EmS	F-A, S-B
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## SECTION 15: Regulatory information

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

Other label information	<p>For professional users only.</p> <p>As a general rule, persons under 18 years of age are not allowed to work with this product. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.</p>
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Legislation and regulations	<p>The Management of Health and Safety at Work Regulations 1999 (SI 1999 No. 3242).</p> <p>EH40/2005, Workplace exposure limits 2005, with amendments.</p> <p>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, including amendments.</p> <p>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.</p> <p>REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents. The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).</p>
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### 15.2. Chemical safety assessment



Chemical safety assessment performed

No

## SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)

H290 May be corrosive to metals.  
 H302 Harmful if swallowed.  
 H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H315 Causes skin irritation.  
 H318 Causes Serious eye damage.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]

Skin Corr. 1B; H314  
 Eye Dam. 1; H318

Training advice

No particular training or education is required but the user must be familiar with this SDS. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.

Additional information

READY-TO-USE MIXTURE: 0,1% Does not require a hazard warning label.

Information added, deleted or revised

Change to Sections: 1, 2, 3, 16

Version

2

Prepared by

ALM