



## Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

Date 06.10.2015

Version 2.0

### CONSISTENT SURFACTANT

#### 1. Identification of the substance/preparation and the company

Trade name: Consistent surfactant  
 Surfactant, non-ionic. Aqueous solution of a C12-C16 fatty alcohol polyglycoside.

Utilisation: Raw material basis: vegetable

Supplier company: **Elemental SRL**, Piata Cazarmii no.15, 410188-Oradea, jud.Bihor, Romania

identification: Tel/Fax: +40259-436.755, www.elemental.eu

Emergency: RO: numar national pentru cazuri de urgenta: 021 3183606 Institutul de Sanatate Publica Bucuresti. International emergency number: +49 180 2273-112

#### 2. Hazards Identification

R-phrase(s):

R38 Irritating to skin. R41 Risk of serious damage to eyes.

S-phrase(s):

S24/25 Avoid contact with skin and eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28.2 After contact with skin, wash immediately with plenty of water. S37/39 Wear suitable gloves and eye/face protection.

Signal Word: Danger



Hazard Statement: H318 Causes serious eye damage. H315 Causes skin irritation.

Precautionary Statements (Prevention): P280f Wear protective gloves and eye/face protection. P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response): 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. P303 + P352 IF ON SKIN (on hair): Wash with plenty of soap and water. P332 + P313 If skin irritation occurs: Get medical advice. P362 Take off contaminated clothing and wash before reuse.

Hazard trigger: Alkylpolyglycoside C10-16

#### 3. Composition / Information on ingredients

INCI name: Lauryl Glucoside

General chemical description: Aqueous preparation of Alkyl polyglycoside C10-16.

Declaration of ingredients (67/548/EC and EC/1272/2008):

Value (%)	Designation	Symbol	R-phrases	Hazard statement	EU number
>= 50 - < 70	Alkyl polyglycoside	Xi	R38, R41	H315, H318	600-975-8
	110615-47-9				

Composition hints for finished product label and formulations:

Active substance 50 - 53 %

Water 47 - 50 %

#### 4. First Aid

4.1. Description of first aid measures

Remove contaminated clothing. If adverse health effects develop seek medical attention.

If inhaled: Keep patient calm, remove to fresh air, seek medical attention. Immediately inhale corticosteroid dose aerosol.

On skin contact: Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

On contact with eyes: Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion: Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.



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

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

### 5. Fire-fighting Measures

#### 5.1. Extinguishing media

Suitable extinguishing media: water spray, dry powder, foam

5.2. Special hazards arising from the substance or mixture: harmful vapours. Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

#### 5.3. Advice for fire-fighters

Special protective equipment: Wear a self-contained breathing apparatus.

Further information: Contaminated extinguishing water must be disposed of in accordance with official regulations.

### 6. Accidental release measures:

High risk of slipping due to leakage/spillage of product.

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

Use personal protective clothing. Information regarding personal protective measures see, section 8.

#### 6.2. Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

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

For large amounts: Dike spillage. Pump off product. For residues: Pick up with suitable absorbent material.

Dispose of absorbed material in accordance with regulations.

#### 6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

### 7. Handling and Storage

#### 7.1. Precautions for safe handling

No special measures necessary provided product is used correctly. Protection against fire and explosion: no special precautions necessary. Avoid open flames.

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

Suitable materials for containers: polyethylene (PE), High density polyethylene (HDPE). Further information on storage conditions: Keep container tightly closed and in a cool place.

Storage stability: can be stored in original unopened containers at below 45° C. If the product is stored at temperatures below 38° C, crystallization may occur. Depending on the storage time sedimentation may occur.

Therefore, the product should be heated and stirred until uniform before use. The product has a high pH-value and for this reason the product contains no preservatives.

#### 7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

### 8. Exposure Controls and Personal Protection

#### 8.1. Control parameters

Components with occupational exposure limits: no occupational exposure limits known.



#### 8.2. Exposure controls



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#### Personal protective equipment

Respiratory protection: Respiratory protection in case of vapour/aerosol release. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2).

Hand protection: Chemical resistant protective gloves (EN 374). Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): nitrile rubber (NBR) - 0.4 mm coating thickness.

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing. Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection: Tightly fitting safety goggles (cage goggles) (e.g. EN 166) and face shield.

#### General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

### 9. Physical and Chemical Properties

Appearance:	liquid, viscous
Colour:	yellowish pale
Odour:	faint, typical
Melting point:	< 0 °C
Boiling point and range:	> 100 °C
Flash point:	not flammable, aqueous preparation
pH value (propanol-2/water, 20 °C):	11.5 - 12.5
Relative density at 40°C:	1.07 - 1.09 g/cm <sup>3</sup>
Viscosity at 40°C:	1000 - 3000 mPas
Solubility(ies):	dispersible in water
Auto-ignition temperature:	not available
Decomposition temperature:	not available

### 10. Stability and Reactivity

#### 10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

#### 10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

#### 10.4. Conditions to avoid

See MSDS section 7 - Handling and storage.

#### 10.5. Incompatible materials

Substances to avoid: acids, alkalines, caustics, halogens, reactive chemicals

#### 10.6. Hazardous decomposition products

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

### 11. Toxicological Information



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#### Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single skin contact.

Experimental/calculated data:

LD50 (oral): > 2,000 mg/kg (Directive 84/449/EEC, B.1)

LD50 (dermal): > 2,000 mg/kg (OECD Guideline 402)

Assessment of irritating effects: May cause severe damage to the eyes.

Skin contact causes irritation. Experimental/calculated data: Skin corrosion/irritation: Irritant. (OECD Guideline 404)

Serious eye damage/irritation: irreversible damage (OECD Guideline 405)

Respiratory/Skin sensitization Assessment of sensitization: No sensitizing effect.

Experimental/calculated data: Non-sensitizing. (OECD Guideline 406)

Germ cell mutagenicity Experimental/calculated data: negative (OECD Guideline 471)

Carcinogenicity Assessment of carcinogenicity: The whole of the information assessable provides no indication of a carcinogenic effect.

Reproductive toxicity Assessment of reproduction toxicity: The information available on the product provides no indication of reproductive toxicity.

Specific target organ toxicity (single exposure)

Assessment of STOT single: Based on the available information there is no specific target organ toxicity to be expected after a single exposure. Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity: The information available on the product provides no indication of toxicity on target organs after repeated exposure.

Aspiration hazard: No aspiration hazard expected.

## 12. Ecological Information

### 12.1. Toxicity

Toxicity to fish: LC50 > 1 - 10 mg/l (DIN EN ISO 7346-2)

Aquatic invertebrates: EC50 > 10 - 100 mg/l (OECD Guideline 202, part 1)

Aquatic plants: EC50 > 10 - 100 mg/l (Directive 88/302/EEC, part C, p. 89)

Microorganisms/Effect on activated sludge: EC0 > 100 mg/l, Pseudomonas putida (OECD Guideline 209), EC0 > 100 mg/l, Pseudomonas putida (DIN 38412 Part 8). Chronic toxicity to fish: No observed effect concentration > 1 - 10 mg/l (OECD Guideline 204). Chronic toxicity to aquatic invertebrates: No observed effect concentration > 1 - 10 mg/l (OECD Guideline 202, part 2)

### 12.2. Persistence and degradability

Assessment biodegradation and elimination (H2O): Readily biodegradable (according to OECD criteria).

Elimination information: (Annex III , part A) The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer.

### 12.3. Bioaccumulative potential

Assessment bioaccumulation potential: Accumulation in organisms is not to be expected.

### 12.4. Mobility in soil (and other compartments if available)

Assessment transport between environmental compartments: The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is possible.

### 12.5. Results of PBT and vPvB assessment

The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

## 13. Disposal Considerations



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Recommendation: Collect and dispose of waste product in accordance with local and EC environmental regulations. Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

#### 14. Transport Information

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2011 - IMDG 2010 - ICAO/IATA 2012).

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: not evaluated

#### 15. Additional Regulatory Information

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

15.2. Chemical Safety Assessment: Chemical Safety Assessment performed

#### 16. Other Information

Abbreviations:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

LTE: Long-term exposure.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STE: Short-term exposure.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.