

Material safety data sheet
According to EU Regulation 1907/2006 in the current version
Lauryl Surfactant

1. Identification of the substance/mixture and company

Trade name: Lauryl Surfactant
Nonionic surfactant
INCI Lauryl glucoside
CAS No. : 110615-47-9
EINECS No. : -
REACH pre-registration No. : -
Utilization: Raw material for cosmetic or professional use
Supplier company identification: Elemental SRL, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania
Tel/Fax: +40259-436.755, www.elemental.eu
Emergency: RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de
Sănătate Publică București.
International emergency number: +49 180 2273-112

2. Hazards Identification

2.1 Classification of the substance or mixture

According to UN GHS criteria

Skin Corr./Irrit.2

Eye Dam./Irrit.1

Aquatic Acute 2

For the classifications not written out in full in this section the full text can be found in section 16.

2.2 Label elements

Globally Harmonized System (GHS)

Pictogram:



Signal Word: Danger

Hazard Statement:

H318

Causes serious eye damage.

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H315 Causes skin irritation.
H401 Toxic to aquatic life.

Precautionary Statements (Prevention):

P280 Wear protective gloves and eye/face protection.
P273 Avoid release to the environment.
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 + P362 IF ON SKIN (or hair): Wash with plenty of soap and water.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

According to UN GHS criteria

Hazard determining component(s) for labeling: Alkylpolyglycoside C10-16

2.2 Other hazards

According to UN GHS criteria

No specific dangers known, if the regulations/notes for storage and handling are considered

3. Declaration of ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature: Aqueous solution based on Alkylpolyglycoside C10-16

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Hazardous ingredients (GHS): According to UN GHS criteria

Substance	CAS	EINECS/EC	Hazard symbols	Percent %
D Glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9	-	Skin Corr./Irrit.2 Eye Dam./Irrit.1 Aquatic Acute 2 H318, H315, H401 Specific concentration limit: Eye Irrit. 1: > 12% Skin Corr./Irrit. 2: > 30 %	>= 40 - < 60

For the classifications not written out in full in this section the full text can be found in section 16.

4. First aid measures

4.1 Description of first aid measures

If adverse health effects develop seek medical attention.

If inhaled: not relevant.

On skin contact: After contact with skin, wash immediately with plenty of water. Change contaminated clothing and shoes.

On contact with eyes: Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

On ingestion: Rinse mouth and then drink 200-300 ml of water.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Hazards: No hazard is expected under intended use and appropriate handling.

4.4 Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media: water spray, carbon dioxide, dry powder, foam.

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5.2 Special hazards arising from the substance or mixture
Harmful vapors.

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.

5.4 Further information
Dispose of fire debris and contaminated extinguishing water 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.

6.2 Environmental precautions
Do not discharge into drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up
For small amounts: Pick up with suitable absorbent material. For large amounts: Dike spillage. Pump off product.
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
Handle in accordance with good industrial hygiene and safety practice.

7.2 Protection against fire and explosion
Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

7.3 Conditions for safe storage, including any incompatibilities
Suitable materials for containers: High density polyethylene (HDPE)

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

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7.4 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 / personal protection

8.1 Control parameters

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

8.2 Exposure controls

Personal protective equipment:

Respiratory protection: Respiratory protection not required.

Hand protection: Suitable are protective gloves with the following specification. The recommendation is valid for laboratory conditions, specific workplace conditions must be taken into consideration separately. 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

Eye protection: Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection: Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures: Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form: liquid, viscous

Color: light yellow

Odor: slight odor

Odor threshold: not applicable

pH value: 12,5

Melting temperature: < 0 °C

boiling temperature: > 100 °C (1.013,200 hPa)

Flash point: > 101 °C Aqueous preparation

Evaporation rate: Value can be approximated from Henry's Law Constant or vapor pressure.

Flammability: not flammable

Flammability of Aerosol Products: not applicable, the product does not form flammable aerosols

Lower explosion limit: For liquids not relevant for classification and labeling.

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Upper explosion limit: For liquids not relevant for classification and labeling.
Ignition temperature: not applicable
Vapor pressure: not determined
Density: 1,07 - 1,08 g/cm³ (20 °C)
Relative vapor density (air): not applicable
Solubility in water: dispersible
Solubility(qualitative)solvent(s): distilled water dispersible
Partitioning coefficient n-octanol/water(logKow): <= 0,07 (calculated)
Self ignition: not applicable
Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic: not determined
Viscosity, kinematic: not determined
Explosion hazard: not explosive
Fire promoting properties: not fire-propagating

9.2 Other information

If necessary, information on other physical and chemical parameters is indicated in this section. No further information 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

None if used for intended purpose.

10.4 Conditions to avoid

See MSDS section 7 - Handling and storage.

10.5 Incompatible materials

Substances to avoid: No substances known that should be avoided.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

11. Toxicological information

11.1 Information on toxicological effects

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Acute toxicity

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

Experimental/calculated data: LD50 rat (oral): > 5.000 mg/kg
LD50 rabbit (dermal): > 2.000 mg/kg (OECD Guideline 402)

Irritation

Assessment of irritating effects: May cause severe damage to the eyes. Skin contact causes irritation.

Experimental/calculated data:
Skin corrosion/irritation rabbit: Irritant. (OECD Guideline 404)
Serious eye damage/irritation rabbit: irreversible damage (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

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

Germ cell mutagenicity

Assessment of mutagenicity: Results from a number of mutagenicity studies with microorganisms and mammalian cell culture are available. Taking into account all of the information, there is no indication that the substance is mutagenic.

Experimental/calculated data: Ames-test Bacteria: 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 results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity: In animal studies the substance did not cause malformations.

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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: No adverse effects were observed after repeated oral exposure in animal studies.

Aspiration hazard No aspiration hazard expected.

12. Ecological information

12.1 Toxicity

Toxicity to fish:

LC50 > 1 - 10 mg/l, Brachydanio rerio (DIN EN ISO 7346-2)

Aquatic invertebrates:

EC50 > 10 - 100 mg/l, Daphnia magna (OECD Guideline 202, part 1)

Aquatic plants:

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

Microorganisms/Effect on activated sludge:

EC0 > 100 mg/l, Pseudomonas putida (DIN 38412 Part 8)

Chronic toxicity to fish:

No observed effect concentration > 1 - 10 mg/l, Brachydanio rerio (OECD Guideline 204)

Chronic toxicity to aquatic invertebrates:

No observed effect concentration > 1 - 10 mg/l, Daphnia magna (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.

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12.3 Bioaccumulative potential

Assessment bioaccumulation potential: No significant accumulation in organisms is expected as a result of the distribution coefficient of n- octanol/water (log Pow).

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self classification

12.6 Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

13. Disposal considerations

13.1 Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

14. Transport information

14.1 Land transport

ADR

Not classified as a dangerous good under transport regulations	
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

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RID

Not classified as a dangerous good under transport regulations	
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

14.2 Inland waterway transport

ADN

Not classified as a dangerous good under transport regulations	
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known
Transport in inland waterway vessel:	Not evaluated

14.3 Sea transport

IMDG

Not classified as a dangerous good under transport regulations	
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

14.4 Air transport

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Not classified as a dangerous good under transport regulations	
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

14.5 UN number

See corresponding entries for "UN number" for the respective regulations in the tables above.

14.6 UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.7 Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.8 Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.9 Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.10 Special precautions for user See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.11 Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

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15. 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.

16. Additional information

Information on intended use: This product is of industrial quality and unless otherwise specified or agreed intended exclusively for industrial use. This includes the mentioned and recommended usage. Any other intended applications should be discussed with the manufacturer. In particular this concerns the application for products that are the object of special standards and regulations.

16.1 Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
Aquatic Acute	Hazardous to the aquatic environment - acute
Eye Irrit.	Serious eye irritation
H318	Causes serious eye damage.
H315	Causes skin irritation.
H401	Toxic to aquatic life.

16.2 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.

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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.