

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

**1. Identification of the substance/mixture and company**

Trade name: Decyl Surfactant  
Nonionic surfactant  
INCI: Decyl glucoside  
CAS No. : 68515-73-1 / 110615-47-9  
EINESCS 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 3

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

**2.2 Label elements**



Pictogram:

Signal Word: Danger

Hazard Statements:

H318	Causes serious eye damage.
H315	Causes skin irritation.
H402	Harmful to aquatic life.

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**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.
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According to UN GHS criteria

Hazard determining component(s) for labeling: Alkylpolyglycoside C8/C10

**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, Alkyl polyglycoside C8-10

Hazardous ingredients (GHS) According to UN GHS criteria

Substance	CAS	EINECS/EC	Hazard symbols	Percent %
Alkylpolyglycoside C8-10	68515-73-1	500-220-1	Eye Dam./Irrit. 1	>= 30 - < 50

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REACH registration number: 01-2119488530-36			Aquatic Acute 3 H318, H402	
Alkylpolyglycoside C10-16 REACH registration number: 01-2119489418-23	110615-47-9	-	Skin Corr./Irrit. 2 Eye Dam./Irrit. 1 Aquatic Acute 2 H315, H318	>= 20 - < 30

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.

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.

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

##### 4.3 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

##### 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

Further information: Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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**6. Accidental release measures**

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.

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**7. Handling and storage**

7.1 Precautions for safe handling  
Handle in accordance with good industrial hygiene and safety practice.  
Protection against fire and explosion: Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

7.2 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.  
Below temperature limit the product properties will change. The property change is reversible by stirring and heating. Please refer to the product specific data sheet for further information.

7.3 Storage stability  
Storage temperature: 10 - 40°C  
Protect from temperatures below: 10°C  
Below the temperature limit, the product is no longer pumpable.  
Protect from temperatures above: 40 °C

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.

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**8. Exposure controls / personal protection**

8.1 Control parameters  
Components with occupational exposure limits

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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

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### 9.1 Information on basic physical and chemical properties

Form: liquid

Color: yellowish

Odor: slight odor

Odor threshold: not applicable

pH value: 11,5 – 12,5 (isopropanol, 20°C)

Melting point: not applicable

boiling temperature: > 212°C

Flash point: 215°C

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.

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

Ignition temperature: not determined

Vapor pressure: not determined

Density: 1,1 g/cm<sup>3</sup> (25°C)

Relative vapor density (air): not applicable

Solubility in water: soluble

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Solubility (qualitative) solvent(s): distilled water soluble  
Partitioning coefficient n-octanol/water (log Kow): not determined  
Self ignition: not applicable  
Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.  
Viscosity, dynamic: 1.000 - 6.000 mPa·s (20°C)  
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**

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**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 if stored and handled as prescribed/indicated.

**11. Toxicological information**

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**11.1 Information on toxicological effects**

**Acute toxicity**

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

Experimental/calculated data: LD50 (oral): > 2.000 mg/kg. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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	LD50 (dermal): > 2.000 mg/kg (OECD Guideline 402)
<b>Irritation</b>	
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)
<b>Respiratory/Skin sensitization</b>	
Assessment of sensitization:	No sensitizing effect.
Experimental/calculated data:	Guinea pig maximization test guinea pig: Non-sensitizing. (OECD Guideline 406)
<b>Germ cell mutagenicity</b>	
Assessment of mutagenicity:	The chemical structure does not suggest a specific alert for such an effect.
Experimental/calculated data:	Ames-test Bacteria: negative The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
<b>Carcinogenicity</b>	
Assessment of carcinogenicity:	The chemical structure does not suggest a specific alert for such an effect.
<b>Reproductive toxicity</b>	
Assessment of reproduction toxicity:	The chemical structure does not suggest a specific alert for such an effect.
<b>Developmental toxicity</b>	
Assessment of teratogenicity:	No data was available concerning toxicity to development.
<b>Specific target organ toxicity (single exposure)</b>	
Assessment of STOT single:	Based on available Data, the classification criteria are not met.
<b>Repeated dose toxicity and Specific target organ toxicity (repeated exposure)</b>	
Assessment of repeated dose toxicity:	The information available on the product provides no indication of toxicity on target organs after repeated exposure.
<b>Aspiration hazard</b>	
No aspiration hazard expected.	
<b>Other relevant toxicity information</b>	
The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.	

## 12. Ecological information

### 12.1 Toxicity

Assessment of aquatic toxicity:	The product has not been tested. The statement has been derived from the properties of the individual components.
Toxicity to fish:	LC50 > 10 - 100 mg/l (DIN EN ISO 7346-2)

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Microorganisms/Effect on activated sludge:  $EC_{50} > 100$  mg/l (OECD Guideline 209)

**12.2 Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O): 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: No data available.

**12.4 Mobility in soil**

Assessment transport between environmental compartments: Volatility: not applicable

**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.

**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



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Environmental hazards:	Not applicable
Special precautions for user	None known

**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

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Environmental hazards:	Not applicable
Special precautions for user	None known

**14.4 Air transport**

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

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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
H318	Causes serious eye damage.
H402	Harmful to aquatic life.
H315	Causes skin irritation.

### 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.

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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.