

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

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

Trade name:	Solubilizer 100% naturally derived, compliant with COSMOS and other standards for natural cosmetics, composed of naturally derived surfactants and wetting agents, powerful replacement for PEG-containing solubilizers
INCI	Caprylyl/Capryl glucoside; Aqua; Sodium cocoyl glutamate; Glyceryl caprylate; Citric acid; Polyglyceryl-6 oleate; Sodium surfactin
CAS No. :	68515-73-1; 7732-18-5; 68187-32-6; 26402-26-6; 77-92-9; 79665-92-2; 302933-83-1
EINECS No. :	500-220-1; 231-791-2; 269-087-2; 247-668-1; 201-069-1; Polymer; 444-240-8
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, <a href="http://www.elemental.eu">www.elemental.eu</a>
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**

Classification according to Regulation (EC) No 1272/2008 [CLP]:  
The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].  
Eye Dam. 1 / H318 Serious eye damage/eye irritation.  
Causes serious eye damage.

**2.2. Label elements**

Labeling according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard pictograms

Danger



Hazard statements

H318 Causes serious eye damage.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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/doctor.

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Supplemental Hazard information (EU)  
not applicable

2.3. Other hazards

Contains: D-Glucopyranose, oligomers, decyl octyl glycosides

**3. Declaration of ingredients**

3.1 Mixtures

Product description / chemical characterization:

Description Caprylyl/Capryl glucoside; Aqua; Sodium cocoyl glutamate; Glyceryl caprylate; Citric acid; Polyglyceryl-6 oleate; Sodium surfactin

Hazardous ingredients:

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

Substance	CAS	EINECS	Risk symbols	Percent %
Polymer	68515-73-1	-	Eye Dam. 1 H318	50 - 100
D-Glucopyranose				
Pligomers				
Decyl octyl glycosides				

**4. First aid measures**

4.1. Description of first aid measures

General information: In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation: Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact: Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

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After ingestion: If swallowed, rinse mouth with water (only if the person is conscious). Get medical advice/attention if you feel unwell. Keep victim calm. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed  
In all cases of doubt, or when symptoms persist, seek medical advice.

## **5. Fire fighting measures**

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### 5.1. Extinguishing media

Suitable extinguishing media: Foam, carbon dioxide, powder, water spray, mist.  
Extinguishing media which must not be used for safety reasons: strong water jet.

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

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.  
Gases: carbon monoxide, carbon dioxide.

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

## **6. Accidental release measures**

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

Keep away from sources of ignition. Ventilate affected area. Do not breathe in vapors. See protective measures under point 7 and 8.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewage, inform competent authorities in accordance with local regulations

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

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculite, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

### 6.4. Reference to other sections

Observe protective provisions (see chapter 7 and 8).

## **7. Handling and storage**

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### 7.1. Precautions for safe handling

Advice on safe handling:

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Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Anti-static clothing including shoes are recommended. Keep away from heat sources, sparks and open flames. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8.

Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Precautions against fire and explosion:

Vapors are heavier than air. Vapors form explosive mixtures with air.

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

Requirements for storage rooms and vessels:

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSIVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorized persons. Store carefully closed containers upright to prevent any leaks.

Hints on joint storage:

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions:

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorized persons. Store carefully closed containers upright to prevent any leaks.

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

Observe technical data sheet. Observe instructions for use.

**8. Exposure controls / personal protection**

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**8.1. Control parameters**

Occupational exposure limit values:  
not applicable.

**8.2. Exposure controls**

Provide good ventilation.

Occupational exposure controls:

Respiratory protection: Wear breathing apparatus if exposed to vapors/dusts/aerosols. Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection: Wear suitable gloves. Recommended glove articles: DIN EN 374. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer.

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Eye protection: Wear closely fitting protective glasses in case of splashes.

Protective clothing: Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures: After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls: Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

## 9. Physical and chemical properties

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### 9.1 Information on physical and chemical properties

Physical state: liquid

Appearance: viscous

Color: yellow

Odor: characteristic

Odor threshold: not determined

pH at 20 °C: - / 10,0 Wt %

Melting point/freezing point: not determined

Initial boiling point and boiling range: not determined

Flash point: not determined

Evaporation rate: not determined

Flammability (solid, gas): not determined

Burning time (s): not determined

Lower explosion limit: not determined

Upper explosion limit: not determined

Vapor pressure at 20 °C: not determined

Vapor density: not determined

Relative density at 20 °C: 1,000 g/cm<sup>3</sup>

Water solubility (g/L) at 20 °C: not determined

Partition coefficient: n-octanol/water: see section 12

Auto-ignition temperature: not determined

Decomposition temperature: not determined

Viscosity at 20 °C: < 15000 mPa·s

Explosive properties: not applicable

Oxidizing properties: not applicable

### 9.2 Other information

None

## 10. Stability and reactivity

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### 10.1. Reactivity

Not applicable.

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**10.2. Chemical stability**

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

**10.3. Possibility of hazardous reactions**

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

**10.4. Conditions to avoid**

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

**10.5. Incompatible materials**

Not applicable.

**10.6. Hazardous decomposition products**

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke.

**11. Toxicological information**

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

**11.1. Information on toxicological effects**

Acute toxicity:

- Oral: > 2000 mg/kg. The statement is derived from the properties of the single components.
- Skin corrosion/irritation; Serious eye damage/eye irritation.
- Eyes: Irritant. The statement is derived from the properties of the single components.
- Skin: slightly irritant but not relevant for classification. The statement is derived from the properties of the single components.

Respiratory or skin sensitization:

Toxicological data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

- In vitro mutagenicity: No experimental indications of mutagenicity in-vitro exist. The statement is derived from the properties of the single components.

Specific target organ toxicity

Toxicological data are not available.

Aspiration hazard

Toxicological data are not available.

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Practical experience/human evidence  
Other observations: none

Overall Assessment on CMR properties  
The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

## 12. Ecological information

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Classification according to Regulation (EC) No 1272/2008 [CLP]:  
There is no information available on the preparation itself.  
Do not allow to enter into surface water or drains.

### 12.1. Toxicity

Long-term Ecotoxicity:  
Toxicological data are not available.

### 12.2. Persistence and degradability

Degradation: Readily biodegradable (according to OECD criteria). The statement is derived from the properties of the single components.

### 12.3. Bioaccumulative potential

Bioconcentration factor (BCF):  
Toxicological data are not available.

### 12.4. Mobility in soil

Toxicological data are not available.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 13. Disposal considerations

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### 13.1. Waste treatment methods

Appropriate disposal / Product recommendation:

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way.

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC:

070699 wastes not otherwise specified

Packaging recommendation:

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

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**14. Transport information**

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No dangerous good in sense of this transport regulation.

14.1. UN number  
not applicable

14.2. UN proper shipping name  
not applicable

14.3. Transport hazard class(es)  
not applicable

14.4. Packing group  
not applicable

14.5. Environmental hazards  
Land transport (ADR/RID): not applicable  
Marine pollutant: not applicable

14.6. Special precautions for user  
Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.  
Advice on safe handling: see parts 6 - 8

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code  
not applicable

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**15. Regulatory information**

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

EU legislation:  
Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).  
VOC-value (in g/L) ISO 11890-2: 0,000  
VOC-value (in g/L) ASTM D 2369: 0,000

National regulations:  
Restrictions of occupation: Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

15.2. Chemical safety assessment  
Chemical safety assessments for substances in this preparation were not carried out.

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**16. Additional information**

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16.1 Full text of classification in section 3:

Eye Dam. 1 / H318 Serious eye damage/eye irritation. Causes serious eye damage.

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.

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.