

**Material Safety Data Sheet**

According to EU Regulation 1907/2006 in the current version

Date 25.10.2015

Version 1.0

SODIUM COCOYL ISETHIONATE**1. Identification of the substance/preparation and the company**

Trade name: Solid surfactant, SCI
Relevant identified uses: Surfactant
Utilization: raw material for cosmetic products
Supplier company identification: **Elemental SRL**, Piata Cazarmii no.15, 410188-Oradea, jud.Bihor, Romania
Tel/Fax: +40259-436.755, www.elemental.eu
Emergency: RO: Biroul pentru Regulamentul Sanitar Internațional și Informare Toxicologică -
Telefon de urgență 021 318 3606

2. Hazards Identification**2.1. Classification of the substance or mixture**

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

Skin Corr./Irrit. 2, Eye Dam./Irrit. 1

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, EU (GHS)

Pictogram:



Signal Word: Warning

Hazard Statement: H319 Causes serious eye irritation. H315 Causes skin irritation.

Precautionary Statements (Prevention): P280 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.

P303 + P362 IF ON SKIN (or hair): Wash with plenty of soap and water.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P337 + P311 If eye irritation persists: Call a POISON CENTER or doctor/physician.

P362 + P364 Take off contaminated clothing and wash before reuse.

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

Hazard determining component(s) for labelling: Fatty acids, coco, 2-sulfoethyl esters, sodium salts

2.3. Other hazards

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

Fine dust produced by abrasion can form explosive mixtures with air.

3. Composition / Information on ingredients

INCI name: Sodium Cocoyl Isethionate

General chemical description: Fatty acids, coco, 2-sulfoethyl esters, sodium salts

Hazardous ingredients (GHS) according to Regulation (EC) No. 1272/2008:

Fatty acids, coco, 2-sulfoethyl esters, sodium salts

Content (W/W): 75 % - 100 %

CAS Number: 61789-32-0, EC-Number: 263-052-5

REACH registration number: 01-2119974104-40

Skin Corr./Irrit. 2, Eye Dam./Irrit. 2, H319, H315

Fatty acids, coco

Content (W/W): 7 % - 10 %

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CAS Number: 61788-47-4, EC-Number: 262-978-7

Eye Dam./Irrit. 1, Aquatic Chronic 3, H318, H412

4. First Aid**4.1. Description of first aid measures**

Remove contaminated clothing.

If inhaled: Keep patient calm, remove to fresh air, seek medical attention.

On skin contact: Wash thoroughly with soap and water. If irritation develops, seek medical attention.

On contact with eyes: 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.

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.

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: dry powder, foam

Unsuitable extinguishing media for safety reasons: carbon dioxide

Additional information: Avoid whirling up the material/product because of the danger of dust explosion.

5.2. Special hazards arising from the substance or mixture

Harmful vapours, sulfur oxides, carbon oxides. 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: The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations. Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire.

6. Accidental release measures:

Forms slippery surfaces with water.

Avoid the formation and build-up of dust - danger of dust explosion. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition.

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. 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 small amounts: Pick up with suitable appliance and dispose of. For large amounts: Contain with dust binding material and dispose of. Avoid raising dust. 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

Provide exhaust ventilation. Protection against fire and explosion: Avoid dust formation. The product is capable of dust 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), Low density polyethylene (LDPE). Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

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

Personal protective equipment



Respiratory protection: Suitable respiratory protection for higher concentrations or long-term effect: Particle filter with low efficiency for solid particles (e.g. EN 143 or 149, Type P1 or FFP1)

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): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other. 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: Safety glasses with side-shields (frame 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

Wearing of closed work clothing is required additionally to the stated personal protection equipment. 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

Appearance:	fine granular
Colour:	white
Odour:	typical, mild
Melting temperature:	22 °C
Initial boiling point:	> 149 °C (1,013 hPa)
Flash point:	> 93.3 °C
pH value (water, 20 °C):	6 - 8
Bulk density:	472 kg/m ³

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Solubility(ies): in water
Thermal decomposition: No data available
Explosion hazard: not explosive
Fire promoting properties: not fire-propagating

10. Stability and Reactivity**10.1. Reactivity**

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

Corrosion to metals: No corrosive effect on metal.

10.2. Chemical stability: The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions: The product may contain explosive fine dust or such dust may be produced by abrasion during transport or product transfer.

10.4. Conditions to avoid: Avoid dust formation.

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**11.1. Information on toxicological effects****Acute toxicity**

Assessment of acute toxicity: Of low toxicity after single ingestion.

Experimental/calculated data: LD50 rat (oral): > 2,000 - < 5,000 mg/kg

Information on: Fatty acids, coco, 2-sulfoethyl esters, sodium salts

Experimental/calculated data: LD50 rat (oral): 4,330 mg/kg

Irritation

Assessment of irritating effects: Skin contact causes irritation. Risk of serious damage to eyes.

Experimental/calculated data: Skin corrosion/irritation rabbit: Irritant.

Serious eye damage/irritation rabbit: irreversible damage (Draize test)

Respiratory/Skin sensitization

Assessment of sensitization: No sensitizing effect.

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

Germ cell mutagenicity

Assessment of mutagenicity: No mutagenic effect was found in various tests with bacteria and mammalian cell culture.

Other relevant toxicity information: 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**

Toxicity to fish: LC50 (96 h) > 10 - < 100 mg/l, *Oryzias latipes* (OECD Guideline 203)

Aquatic invertebrates: EC50 (48 h) > 10 - < 100 mg/l, *Daphnia magna* (OECD Guideline 202, part 1)

Aquatic plants: EC50 (72 h) > 10 - < 100 mg/l (growth rate), *Selenastrum capricornutum* (OECD Guideline 201) acute Effect. No observed effect concentration (72 h) > 1 mg/l (growth rate), *Selenastrum capricornutum* (OECD Guideline 201) long-term effect. Chronic toxicity to fish: No observed effect concentration > 1 mg/l, Fish



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Chronic toxicity to aquatic invertebrates: No observed effect concentration (21 d) > 1 mg/l, *Daphnia magna* (OECD Guideline 211).

Information on: Fatty acids, coco, 2-sulfoethyl esters, sodium salts

Aquatic invertebrates: EC50 (48 h) > 56 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static). The product has low solubility in the test medium. A saturated solution has been tested. The statement of the toxic effect relates to the analytically determined concentration.

Information on: Fatty acids, coco, 2-sulfoethyl esters, sodium salts

Microorganisms/Effect on activated sludge: EC20 (180 min) 460 mg/l, activated sludge, domestic (OECD Guideline 209, aquatic). The details of the toxic effect relate to the nominal concentration.

12.2. Persistence and degradability

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

Elimination information: > 70 % CO₂ formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) (aerobic, activated sludge, domestic)

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

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 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).

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.

12.7. Additional information: Add. remarks environm. fate & pathway: Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice: The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

13. Disposal Considerations

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

14. Transport Information

General recommendations:	Not classified as a dangerous good under transport regulations.
UN no:	not classified
Road (ADR/RID):	not classified
Air (IATA/ICAO):	not classified
Sea (IMDG):	not classified
MARPOL73/78:	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 not required.

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SODIUM COCOYL ISETHIONATE**16. Other Information****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.