

**Material Safety Data Sheet**

According to EU Regulation 1907/2006 in the current version

Date 06.10.2015

Version 2.0

**SODIUM COCO-SULFATE****1. Identification of the substance/preparation and the company**

Trade name: Solid surfactant, SCS  
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](http://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 Aquatic Chronic 3

According to Directive 67/548/EEC or 1999/45/EC

Possible Hazards: Irritating to skin. Risk of serious damage to eyes.

**2.2. Label elements**

Globally Harmonized System, EU (GHS)

Pictogram:



Signal Word: Danger

Hazard Statement: H318 Causes serious eye damage. H315 Causes skin irritation. H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280f 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 (on hair): Wash with plenty of soap and water. P332 + P313 If skin irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse.

Precautionary Statements (Disposal): P501 Dispose of contents/container to hazardous or special waste collection point.

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

Hazard determining component(s) for labelling: Sodium C12-18 alkyl sulfate

According to Directive 67/548/EEC or 1999/45/EC

EEC Directives

Hazard symbol(s): Xi Irritant.



R-phrases(s): R38 Irritating to skin. R41 Risk of serious damage to eyes.

S-phrases(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.

Hazard determining component(s) for labelling: Sodium C12-18 alkyl sulfate

**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**

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**SODIUM COCO-SULFATE**

INCI name: Sodium Coco-Sulfate

General chemical description: Sulfuric acid, mono-C12-18-alkyl esters, sodium salts.

CAS Number: 68955-19-1

EC-Number: 273-257-1

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

If adverse health effects develop seek medical attention.

If inhaled: Fresh air.

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:

Drink 1-2 glasses of water, do not induce vomiting, administer an antifoaming agent (sab simplex), 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., 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, dry powder, foam

Unsuitable extinguishing media for safety reasons: carbon dioxide

**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**

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

**6. Accidental release measures:**

Forms slippery surfaces with water.

**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 appliance and dispose of. For large amounts: Pick up with suitable appliance and dispose of. Avoid raising dust. Dispose of absorbed material in accordance with regulations.

**6.4. Reference to other sections**



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

#### 7. Handling and Storage

**Handling:** Handle in accordance with good industrial hygiene and safety practice. Protection against fire and explosion: Avoid dust formation. Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

**Storage:** Suitable materials for containers: paper, polyethylene (PE), Polypropylene, High density polyethylene (HDPE). Further information on storage conditions: Keep container tightly closed and dry; store in a cool place. Product can be stored in sealed original container between 0 - 30°C. At higher temperatures than 30 °C the product could tend to lumping. This might appear even if the product is exposed to this temperature for a short time. In the case of lumping a problem-free emptying of the big bags can be accomplished with suitable mechanical emptying devices. The caking itself disappears after refilling.

#### 8. Exposure Controls and Personal Protection

##### 8.1. Control parameters

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

Components with PNEC

68955-19-1: Sulfuric acid, mono-C12-18-alkyl esters, sodium salts

freshwater: 0.098 mg/l, marine water: 0.0098 mg/l, intermittent release: 0.15 mg/l, STP: 6.8 mg/l, sediment (freshwater): 3.45 mg/kg, sediment (marine water): 0.345 mg/kg, soil: 0.631 mg/kg

Components with DNEL

68955-19-1: Sulfuric acid, mono-C12-18-alkyl esters, sodium salts

worker: Long-term exposure- systemic effects, dermal: 4060 mg/kg bw/day

worker: Long-term exposure- systemic effects, Inhalation: 285 mg/m<sup>3</sup>

consumer: Long-term exposure- systemic effects, dermal: 2440 mg/kg bw/day

consumer: Long-term exposure- systemic effects, Inhalation: 85 mg/m<sup>3</sup>

consumer: Long-term exposure- systemic effects, oral: 24 mg/kg bw/day

##### 8.2. Exposure controls

Personal protective equipment

Respiratory protection: Breathing protection if dusts are formed.

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): fluoroelastomer (Viton).

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. Hands and/or face should be washed before breaks and at the end of the shift.



#### 9. Physical and Chemical Properties



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### SODIUM COCO-SULFATE

Appearance:	granules
Colour:	white
Odour:	typical
Melting temperature:	36 - 183 °C
Initial boiling point:	208 °C
Flash point:	160 °C
pH value (water, 20 °C):	10 - 11
Bulk density:	550 - 650 kg/m <sup>3</sup>
Solubility(ies):	in water > 250 g/l at 20 °C
Auto-ignition temperature:	250 °C
Decomposition temperature:	> 208 °C
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
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.

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

#### Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. Of low toxicity after single ingestion.

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

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: Severely irritating. (OECD Guideline 405)

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

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

Germ cell mutagenicity. Assessment of mutagenicity: Mutagenicity tests revealed no genotoxic potential.

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: The substance did not cause malformations in animal studies; however, toxicity to development was observed at high doses that were toxic to the parental animals. 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 or

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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**

Assessment of aquatic toxicity: Harmful to aquatic organisms based on long-term (chronic) toxicity study data. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish: LC50 (96 h) > 10 - 100 mg/l, *Cyprinus carpio* (OECD 203; ISO 7346; 84/449/EEC, C.1, semistatic)

Aquatic invertebrates: EC50 (48 h) > 10 - 100 mg/l, *Daphnia magna* (Directive 84/449/EEC, C.2, static)

Aquatic plants: EC50 (72 h) > 10 - 100 mg/l (growth rate), *Scenedesmus subspicatus* (Guideline 92/69/EEC, C.3, static).

Microorganisms/Effect on activated sludge: EC0 > 100 mg/l, *Pseudomonas putida* (OECD Guideline 209)

Chronic toxicity to fish: No observed effect concentration > 0.1 - 1 mg/l, *Pimephales promelas* (Flow through.). The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Chronic toxicity to aquatic invertebrates: No observed effect concentration > 0.1 - 1 mg/l. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

**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: Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

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

Assessment transport between environmental compartments: Adsorption to solid soil phase is expected.

**12.5. Results of PBT and vPvB assessment**

According to Annex XIV of Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation 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 substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

**12.7. Additional information**

Adsorbable organically-bound halogen (AOX): This product contains no organically-bound halogen.

**13. Disposal Considerations**

Recommendation: Collect and dispose of waste product in accordance with local and EC environmental regulations.

**14. Transport Information**

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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

**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****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.