

# Safety Data Sheet

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Trade name**

**Sodium Cocoyl Isethionate Powder**

**Identification of the substance according to its REACH registration**

sodium cocoyl isethionate

**REACH - Registration number** 01-2119974104-40-0001  
**according to article 20(3):**

**Chemical nature:** Coco fatty acid isethionate, sodium salt

**EC number :** 263-052-5

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses of the substance or mixture**

Industry sector : Personal Care

Type of use : Surface active agent for cosmetics

Exposure scenarios: see annex

### 1.3. Details of the supplier of the safety data sheet

**Identification of the company**

Chemistry Connection  
255 Sturgis Road  
Conway, AR 72034  
Telephone no. : +1 501-470-9689

### 1.4. Emergency telephone number

+1 800-424-9300(CHEMTREC) (24 h)

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

Eye irritation, Category 2


H319: Causes serious eye irritation.

Chronic aquatic toxicity, Category 3

H412: Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	:	<b>Prevention:</b> P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear eye protection/ face protection. <b>Response:</b> P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/ attention. <b>Disposal:</b> P501 Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.  
Risk of dust explosion.

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Substance name	:	Coco fatty acid isethionate, sodium salt
EC-No.	:	263-052-5

#### Hazardous components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)
Coconut fatty acid isethionate-sodium salt	61789-32-0 263-052-5	>= 90 - <= 100

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice	:	Get medical advice/ attention if you feel unwell. Remove/Take off immediately all contaminated clothing.
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- If inhaled : If inhaled, remove immediately to fresh air; if not breathing give artificial respiration; obtain medical help.
- In case of skin contact : After contact with skin, wash immediately with plenty of water. Remove contaminated clothing and shoes. Call a physician if symptoms occur.
- In case of eye contact : Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.
- If swallowed : In case of unconsciousness do not induce vomiting or give anything by mouth. Immediately give large quantities of water to drink. If swallowed, give 3-4 glasses of milk to drink (if unavailable, water). Get medical attention immediately.

#### **4.2 Most important symptoms and effects, both acute and delayed**

- Symptoms : No symptoms known currently.
- Risks : No hazards known at this time.

#### **4.3 Indication of any immediate medical attention and special treatment needed**

- Treatment : Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder  
Water mist

- Unsuitable extinguishing media : High volume water jet

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

- Specific hazards during firefighting : Some risk may be expected of corrosive and toxic decomposition products.  
Fine particles < 500 µm are potentially dust-explosive.  
  
Emits toxic and corrosive fumes under fire conditions.

#### **5.3 Advice for firefighters**

- Special protective equipment for firefighters : Self-contained breathing apparatus Full protective suit

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## **SECTION 6: Accidental release measures**

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

Personal precautions : Wear suitable protective equipment.  
Toxic/corrosive gas

### **6.2 Environmental precautions**

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.

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

Methods for cleaning up : Containers in which spilt substance has been collected must be adequately labelled  
Avoid dust formation.  
Take measures to prevent the build up of electrostatic charge.  
Risk of dust explosion.  
Soak up with inert absorbent material.

### **6.4 Reference to other sections**

For personal protection see section 8.

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## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Advice on safe handling : Store in cool place.  
Store in a dry place.  
Avoid dust formation.

Advice on protection against fire and explosion : To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Risk of dust explosion.

Hygiene measures : Do not eat, drink or smoke when using this product.

Dust explosion class : ST1 Capable of dust explosion

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

Requirements for storage areas and containers : Keep container tightly closed in a cool, well-ventilated place.  
Keep only in the original container.

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

Specific use(s) : No further recommendations.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Coconut fatty acid isethionate-sodium salt CAS-No.: 61789-32-0	Workers	Inhalation	Long-term systemic effects	62,5 mg/m <sup>3</sup>
Remarks:	DNEL			
	Workers	Dermal	Long-term systemic effects	28,75 mg/kg bw/day
Remarks:	DNEL			
	General population	Inhalation	Long-term systemic effects	18,5 mg/m <sup>3</sup>
Remarks:	DNEL			
	General population	Dermal	Long-term systemic effects	17,3 mg/kg bw/day
Remarks:	DNEL			
	General population	Oral	Long-term systemic effects	10,7 mg/kg bw/day
Remarks:	DNEL			
	Workers	Inhalation	Long-term systemic effects	62,5 mg/m <sup>3</sup>
Remarks:	DNEL			
	Workers	Dermal	Long-term systemic effects	28,75 mg/kg bw/day
Remarks:	DNEL			
	General population	Inhalation	Long-term systemic effects	18,5 mg/m <sup>3</sup>
Remarks:	DNEL			
	General population	Dermal	Long-term systemic effects	17,3 mg/kg bw/day
Remarks:	DNEL			
	General population	Oral	Long-term systemic effects	10,7 mg/kg bw/day
Remarks:	DNEL			

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Coconut fatty acid isethionate-sodium salt CAS-No.: 61789-32-0	Fresh water	4,8 µg/l
	salt water	0,48 µg/l
	Water (intermittent release)	48 µg/l
	Sewage treatment plant	6,87 mg/l
	Fresh water sediment	714 µg/kg sediment dw
	Marine sediment	71,4 µg/kg sediment dw

	Soil	0,1394 mg/kg dry weight (d.w.)
	Secondary Poisoning	94,7 mg/kg food
	Fresh water	4,8 µg/l
	salt water	0,48 µg/l
	Water (intermittent release)	48 µg/l
	Sewage treatment plant	6,87 mg/l
	Fresh water sediment	714 µg/kg sediment dw
	Marine sediment	71,4 µg/kg sediment dw
	Soil	0,1394 mg/kg dry weight (d.w.)
	Secondary Poisoning	94,7 mg/kg food

## 8.2 Exposure controls

### Personal protective equipment

- Eye protection : Depending on the risk, wear sufficient eye protection (safety glasses with side protection or goggles, and if necessary, face shield.)
- Hand protection  
Remarks : Impervious butyl rubber gloves PVC disposable gloves Neoprene gloves
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : Effective dust mask
- Protective measures : Observe the usual precautions for handling chemicals. Do not breathe dust.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance : fine powder
- Color : white
- Odor : not specified
- Odor Threshold : not tested.
- pH : 5,0 - 6,5  
Concentration: 10 %
- Melting point : 180 °C
- Boiling point : not determined
- Flash point : Not applicable

Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	not determined
Burning number	:	not determined
Upper explosion limit	:	not tested.
Lower explosion limit	:	not tested.
Vapor pressure	:	not tested.
Relative vapor density	:	Not applicable
Density	:	not tested.
Bulk density	:	500 kg/m <sup>3</sup>
Solubility(ies)		
Water solubility	:	soluble
Solubility in other solvents	:	not tested. Solvent: fat
Partition coefficient: n-octanol/water	:	log Pow: -0,41
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	Stable under normal conditions.
Viscosity		
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	not tested.
Explosive properties	:	no data available
Oxidizing properties	:	not tested.

## 9.2 Other information

Dust explosion class	:	ST1 Capable of dust explosion
Minimum ignition energy	:	not tested.
Particle size	:	not tested.
Self-ignition	:	not tested.

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See section 10.3. "Possibility of hazardous reactions"

### 10.2 Chemical stability

Stable

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Hazardous polymerization does not occur.  
Stable

### 10.4 Conditions to avoid

Conditions to avoid : Keep away from heat.  
Keep away from open flames, hot surfaces and sources of ignition.

### 10.5 Incompatible materials

Materials to avoid : not known

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : Remarks: not tested.

Acute dermal toxicity : Remarks: not tested.

#### Skin corrosion/irritation

##### Product:

Species: Rabbit  
Assessment: Mild skin irritation  
Method: OECD Test Guideline 404  
Result: Mild skin irritation

#### Serious eye damage/eye irritation

##### Product:

Species: rabbit eye  
Method: OECD Test Guideline 405



Result: irritating

### **Respiratory or skin sensitization**

**Product:**

Species: Guinea pig

Method: OECD Test Guideline 406

Result: non-sensitizing

### **Germ cell mutagenicity Product:**

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Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

### **Carcinogenicity**

**Product:**

Carcinogenicity - Assessment : No information available.

### **Reproductive toxicity**

**Product:**

Reproductive toxicity - Assessment : No information available.

No information available.

### **STOT - single exposure**

**Product:**

Remarks: not tested.

### **STOT - repeated exposure**

**Product:**

Remarks: not tested.

### **Repeated dose toxicity**

**Product:**

Remarks: not tested.

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## **SECTION 12: Ecological information**

### **12.1 Toxicity**

**Product:**

Toxicity to fish : LC50 : 10 - 100 mg/l  
Exposure time: 96 h

Test Type: static test  
GLP: no

LC50 (Danio rerio (zebra fish)): 33 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 30 mg/l  
Exposure time: 48 h  
Method: DIN 38412 T.11  
GLP: no

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 4,8 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Method: OECD Test Guideline 201

EC10 (Pseudokirchneriella subcapitata (algae)): 0,3 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge of a predominantly domestic sewage): > 1.000 mg/l  
Exposure time: 3 h

## 12.2 Persistence and degradability

### Product:

Biodegradability : Test Type: aerobic  
Concentration: 30 mg/l  
Biodegradation: 94,1 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301E  
Remarks: Readily biodegradable, according to appropriate OECD test.

### Components:

#### **Coconut fatty acid isethionate-sodium salt:**

Biodegradability : Result: Readily biodegradable.

## 12.3 Bioaccumulative potential

### Product:

Bioaccumulation : Remarks: Due to the low logPow bioaccumulation is not expected

## 12.4 Mobility in soil

### Product:

Distribution among environmental compartments : Remarks: not tested.

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : Remarks: The substance does not meet the criteria for PBT or vPvB substance.

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

## 12.6 Other adverse effects

### Product:

Environmental fate and pathways : Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Additional ecological information : no data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Can be incinerated, when in compliance with local regulations.

Contaminated packaging : Packaging that cannot be cleaned should be disposed of as product waste

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## SECTION 14: Transport information

### Section 14.1. to 14.5.

ADR	not restricted
ADN	not restricted
RID	not restricted
IATA	not restricted
IMDG	not restricted

### 14.6. Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code (International Bulk Chemicals Code)

No transport as bulk according IBC - Code.

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## SECTION 15: Regulatory information

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

Other regulations:

VDI 2263 "Dust fires and explosions; Danger, Evaluation, Protection measures"  
Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

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## SECTION 16: Other information

### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Other information : Observe national and local legal requirements

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