



# Material Safety Data Sheet

## Section 1: Chemical Product and Company Identification

**Product Name:** 10% Sodium dodecyl sulfate

**CAS#:** Not applicable

**Synonym:** None

**Chemical Formula:** C<sub>12</sub>H<sub>25</sub>NaO<sub>4</sub>S and H<sub>2</sub>O

**Contact Information:**

**UFC Biotechnology, Inc.**

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Office Number: 716-777-3776

**INFOTRAC (24HR Emergency Telephone), call:**

1-800-535-5053

**International INFOTRAC, call: 1- 352-323-3500**

**For non-emergency assistance, call: 1-716-777-3776**

## Section 2: Hazards Identification

### 2.1 Classification of the substance or mixture

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Skin irritation (Category 2), H315

Serious eye damage (Category 1), H318

### 2.2 GHS Label elements, including precautionary statements



Pictogram

Signal word

**Danger**

#### Hazard statement(s)

H315 Causes skin irritation.

H318 Causes serious eye damage.

#### Precautionary statement(s)

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P308 + P310 IF exposed or concerned: Immediately call a POISON CENTER/doctor.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Possible sensitizer.

## Section 3: Composition, Information on Hazardous Ingredients

### 3.1 Substances

**Synonyms :**  
Lauryl sulfate sodium salt  
Sodium dodecyl sulphate  
Sodium dodecyl sulfate  
Sodium lauryl sulfate  
Dodecyl sodium sulfate  
Dodecyl sulfate sodium salt

**Formula :** C<sub>12</sub>H<sub>25</sub>O<sub>4</sub>S.Na

**Molecular weight :** 288.38 g/mol

**CAS-No. :** 151-21-3

**EC-No. :** 205-788-1

**Name**

**Classification**

**% by Weight**

Sodium dodecyl sulfate (SDS)	Flam. Sol. 2 – H228 Acute Tox. 4 – H302+H332 Skin Irrit. 2 – H315 Eye Dam. 1 – H318 STOT SE 3 – H335	10=15%% ≤
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#### Section 4: First Aid Measures

<b>4.1</b>	<b>Description of first-aid measures</b>	<p>General advice Show this material safety data sheet to the doctor in attendance.</p> <p>If inhaled After inhalation: fresh air.</p> <p>In case of skin contact In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>In case of eye contact After eye contact: rinse out with plenty of water. Immediately call the ophthalmologist. Remove contact lenses.</p> <p>If swallowed After swallowing: immediately drink water (two glasses at most). Consult a physician.</p>
<b>4.2</b>	<b>Most important symptoms and effects, both acute and delayed</b>	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
<b>4.3</b>	<b>Indication of any immediate medical attention and special treatment needed</b>	No data available

#### Section 5: Firefighting Measures

<b>5.1</b>	<b>Extinguishing media</b>	<p><b>Suitable extinguishing media</b> Water Foam Carbon dioxide (CO<sub>2</sub>) Dry powder</p> <p><b>Unsuitable extinguishing media</b> For this substance/mixture no limitations of extinguishing agents are given.</p>
<b>5.2</b>	<b>Special hazards arising from the substance or mixture</b>	<p>Carbon oxides</p> <p>Sulfur oxides</p> <p>Sodium oxides</p> <p>Combustible.</p> <p>Vapors are heavier than air and may spread along floors.</p> <p>Forms explosive mixtures with air on intense heating.</p> <p>Development of hazardous combustion gases or vapours possible in the event of fire.</p>
<b>5.3</b>	<b>Advice for firefighters</b>	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
<b>5.4</b>	<b>Further information</b>	Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the groundwater system.

#### Section 6: Accidental Release Measures

<b>6.1</b>	<b>Personal precautions, protective equipment and emergency procedures</b>	<p>Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.</p>
<b>6.2</b>	<b>Environmental precautions</b>	Do not let product enter drains. Risk of explosion.
<b>6.3</b>	<b>Methods and materials for containment and cleaning up</b>	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
<b>6.4</b>	<b>Reference to other sections</b>	For disposal see section 13.

## Section 7: Handling and Storage

- 7.1 Precautions for safe handling**  
**Advice on safe handling** Work under hood. Do not inhale substance/mixture.  
**Advice on protection against fire and explosion** Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.  
**Hygiene measures** Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities**  
**Storage conditions** Tightly closed. Keep away from heat and sources of ignition. hygroscopic  
**Storage class** Storage class (TRGS 510): 4.1B: Flammable solid hazardous materials
- 7.3 Specific end use(s)**  
 Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## Section 8: Exposure Controls/Personal Protection

- 8.1 Control parameters**  
**Ingredients with workplace control parameters** Contains no substances with occupational exposure limit values.
- 8.2 Exposure controls**  
**Appropriate engineering controls** Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
- Personal protective equipment**  
**Eye/face protection** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles  
**Skin protection** Handle with impervious gloves.  
 This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).  
 Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: KCL 741 Dermatril® L  
 Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: KCL 741 Dermatril® L  
**Body Protection** Flame retardant antistatic protective clothing.  
**Respiratory protection** required when dusts are generated.  
 Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.  
**Control of environmental exposure** Do not let product enter drains. Risk of explosion.

## Section 9: Physical and Chemical Properties

Physical State	Liquid
Appearance	Colorless
Odor	No data available
Odor Threshold	No information available
pH	No data available
Melting Point/Range	No data available
Boiling Point/Range	No data available
Flash Point	No data available
Evaporation Rate	No data available
Flammability (solid, gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Bulk Density	No data available
Solubility	Soluble in water

Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Molecular Formula	C12 H25 Na O4 S
Molecular Weight of SDS	288.38

### Section 10: Stability and Reactivity Data

Reactive Hazard	No data available
Stability	The product is chemically stable under standard ambient conditions (room temperature).
Conditions to Avoid	No data available
Incompatible products.	No data available
Incompatible Materials	No data available
Hazardous Decomposition Products	No data available
Hazardous Polymerization	No data available
Hazardous Reactions	No data available

### Section 11: Toxicological Information

#### 11.1 Information on toxicological effects

##### Acute toxicity LD50

Acute oral toxicity: Sodium dodecyl sulfate (SDS) - LD50: > 1427 mg/kg - Rat - (OECD 401)

Acute dermal toxicity: Sodium dodecyl sulfate (SDS) - LD50: 580 mg/kg - Rabbit - (IUCLID)

Acute inhalation toxicity: Sodium dodecyl sulfate (SDS) - LC50: > 3900 mg/m<sup>3</sup> - Rat - (National Library of Medicine ChemID Plus (NLM CIP))

**Skin corrosion/irritation** Causes skin irritation.

**Eye irritation** Causes serious eye damage.

**Respiratory or skin sensitization** Not sensitizing

**Germ cell mutagenicity** No indications of human germ cell mutagenicity exist.

##### Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**Reproductive toxicity** No data available

**Specific target organ toxicity - single exposure** No data available

**Specific target organ toxicity - repeated exposure** No data available

**Aspiration hazard** No data available

#### 11.2 Additional Information

RTECS: WT1050000 sneezing, The sodium salt of dodecyl sulfate has been reported to cause pulmonary sensitization resulting in hyperactive airway dysfunction and pulmonary allergy accompanied by fatigue, malaise, and aching. Significant symptoms of exposure can persist for more than two years and can be activated by a variety of nonspecific environmental stimuli such as automobile exhaust, perfumes, and passive smoking. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### Section 12: Ecological Information

#### 12.1 Toxicity

Toxicity to fish flow-through test SDS LC50 - Pimephales promelas (fathead minnow) - 29 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates flow-through test SDS EC50 - Daphnia dubia (Water flea) - 5.55 mg/l - 48 h Remarks: (ECHA) flow-through test NOEC - Ceriodaphnia dubia (water flea) - 0.88 mg/l - 7 d (US-EPA)

Toxicity to algae SDS ErC50 - Desmodesmus subspicatus (green algae) - > 120 mg/l - 72 h (DIN 38412)

Toxicity to bacteria SDS EC50 - activated sludge - 130 mg/l - 3 h (OECD Test Guideline 209)

- 12.2 Persistence and degradability**  
Biodegradability aerobic - Exposure time 28 d Result: 95 % - Readily biodegradable. (OECD Test Guideline 301B)
- 12.3 Bioaccumulative potential**  
Bioaccumulation Cyprinus carpio (Carp) - 72 h (Sodium dodecyl sulfate) Bioconcentration factor (BCF): 3.9 - 5.3
- 12.4 Mobility in soil**  
No data available
- 12.5 Results of PBT and vPvB assessment**  
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
- 12.6 Endocrine disrupting properties**  
No data available
- 12.7 Other adverse effects**  
No data available

### Section 13: Disposal Considerations

- 13.1 Waste treatment methods**  
**Product**  
Waste material must be disposed of in accordance with national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

### Section 14: Transport Information

- DOT (US)**  
No dangerous good in sense of this transport regulation.
- IMDG**  
No dangerous good in sense of this transport regulation.
- IATA**  
No dangerous good in sense of this transport regulation.

### Section 15: Other Regulatory Information

- SARA 302 Components** This material does not contain any components with a section 302 EHS TPQ.
- SARA 313 Components** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- SARA 311/312 Hazards** Fire Hazard, Acute Health Hazard
- Massachusetts Right To Know Components** No components are subject to the Massachusetts Right to Know Act. No components are subject to the Massachusetts Right to Know Act.
- Pennsylvania Right To Know Components** dodecyl sulphate sodium salt CAS-No. 151-21-3 Revision Date
- New Jersey Right To Know Components** dodecyl sulphate sodium salt CAS-No. 151-21-3 Revision Date

### Section 16: Other Information

- References:** Not available.
- Other Special Considerations:** Not available.
- Created:** 7/25/2022
- Last Updated:** 7/25/2022
- The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall UFC Biotechnology be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, however arising, even if UFC Biotechnology has been advised of the possibility of such damages.