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# SODIUM DODECYL SULFATE

# **SECTION 1: PRODUCT IDENTIFICATION**

Product Name: Sodium dodecyl sulfate Product Code: TMB 043 CAS#: 151-21-3 Synonym: Lauryl sulfate sodium salt Chemical Name: Not available. Chemical Formula: C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>.H<sub>2</sub>O Formula Weight: 288.38

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

### **Composition:**

Name: Sodium dodecyl sulfate Toxicological Data on Ingredients: Flam. Sol. 2; Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; STOT SE 3; Aquatic Chronic 3; H228, H302, H315, H318, H335, H412

### **SECTION 3: HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Flammable solids (Category 2), H228 Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 4), H332 Skin irritation (Category 2), H315 Serious eye damage (Category 1), H318 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 Long-term (chronic) aquatic hazard (Category 3), H412 Potential Acute Health Effects: Not available Potential Chronic Health Effects: Not available. Carcinogenic Effects: Not available. Mutagenic Effects: Not available. Teratogenic Effects: Not available. Developmental Toxicity: Not available.

## **SECTION 4: FIRST AID MEASURES**

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**Skin Contact:** Wash off immediately with soap and plenty of water. Cover the irritated skin with emollient. Immediate medical attention is required.

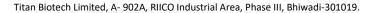
Serious Skin Contact: Not available.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not Available.

**Ingestion:** Do Not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.





# SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media Water Foam Carbon dioxide (CO2) Dry powder Special hazards arising from the substance or mixture Carbon oxides, Sulphur oxides, Sodium oxides Advice for firefighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. **Environmental precautions** 

Do not let product enter drains.

#### Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

### **SECTION 7: HANDLING AND STORAGE**

#### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge. **Storage conditions:** Store in cool place. Keep container tightly closed in a dry and well-ventilated place hygroscopic

Store in cool place. Keep container tightly closed in a dry and well-ventilated place hygrosc Storage class: Not available

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

#### **Respiratory protection**

Respiratory protection is not required. If protection from nuisance levels of dusts are desired, use type N95 or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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Boiling Point	:	Not available
Melting Point	:	Not available
Critical Temperature	:	Not available
Specific Gravity	:	Not available
Vapor Pressure	:	Not available
Vapor Density	:	Not available
Volatility	:	Not available
Odor Threshold	:	Not available
Water/Oil Dist. Coeff.	:	Not available
lonicity (in Water)	:	Not available
Dispersion Properties	:	Not available
Solubility	:	Not available

# SECTION 10: STABILITY AND REACTIVITY DATA

Stability: Stable under recommended storage conditions.

Instability Temperature: Not available

Conditions of Instability: Heat, flames and sparks.

Incompatibility with various substances: Oxidizing agents

Special Remarks on Corrosively: Non-corrosive.

Special Remarks on Reactivity: Not available

Possibility of hazardous reactions: Violent reactions possible with: Strong oxidizing agents

Hazardous decomposition products: Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides, Sodium oxides

## SECTION 11: TOXICOLOGICAL INFORMATION.

Acute Toxicity: Not available Inhalation: No data available Dermal: No data available Routes of Entry: No data available Toxicity to Animals: LD50 Oral - Rat - female - 977 mg/kg. LD50 Dermal - Rabbit - > 2.000 mg/kg Chronic Effects on Humans: Not available Other Toxic Effects on Humans: Not available Special Remarks on Toxicity to Animals: Not available Special Remarks on other Toxic Effects on Humans: Inhalation - May cause respiratory irritation. Acute oral toxicity - Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

# SECTION 12: ECOLOGICAL INFORMATION

#### **Ecotoxicity:**

Toxicity to fish	flow-through test LC50 - Pimephales promelas (fathead minnow) - 29mg/l - 96 h				
Toxicity to daphnia	LC50 - Daphnia dubia (water flea) - 5,55 mg/l - 48 h				
Toxicity to algae	Growth inhibition LOEC - Pseudokirchneriella subcapitata - 2,68 mg/l- 6 d				
	Static test EC50 - Desmodesmus subspicatus (green algae) - > 120 mg/l - 72 h				
BOD and COD: Not available					
Products of Biodegradation:					
Biodegradability	aerobic - Exposure time 28 d				

Result: 95 % - Readily biodegradable.

Ratio BOD/ThBOD 95,9 %

Titan Biotech Limited, A- 902A, RIICO Industrial Area, Phase III, Bhiwadi-301019.



**Toxicity of the Products of Biodegradation:** Not available **Special Remarks on the Products of Biodegradation:** Not Available

### **SECTION 13: DISPOSAL CONSIDERATIONS**

### Waste Disposal:

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Waste must be disposed of in accordance with federal, state and local environmental control regulations.

### **SECTION 14: TRANSPORT INFORMATION**

UN number:			
ADR/RID: 1325	IMDG:	1325	<b>IATA:</b> 1325
UN proper shipping name	2		
ADR/RID: FLAMMABLE SC	DLID		
IMDG: FLAMMABLE SOLIE	)		
IATA: FLAMMABLE SOLID			
Transport hazard class (es	s):		
ADR/RID: 4.1	IMDG:	4.1	<b>IATA:</b> 4.1
Packaging group:			
ADR/RID: III	IMDG: III		IATA: III
Environmental hazards:			
ADR/RID: no	IMDG Marine pollutant:	no	IATA: no

### **SECTION 15: REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. Chemical Safety Assessment For this product a chemical safety assessment was not carried out

### **SECTION 16: OTHER INFORMATION**

# References: Full text of H AND R-Statements:

- H228 Flammable solid.
- H302 Harmful if swallowed.
- H302 + H332 Harmful if swallowed or if inhaled.
- H315 Causes skin irritation.

H318 Causes serious eye damage.

- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

Other Special Considerations: Not available

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