

# SAFETY DATA SHEET

## 1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Sodium Dodecyl Sulfate

PRODUCT NUMBER: \$844

COMPANY INFO: PhytoTechnology Laboratories®

PO Box 12205, Shawnee, KS 66282-2205

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EMERGENCY PHONE NUMBER 1-800-535-5053 - US Only (INFOTRAC): 1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

Products sold by PhytoTechnology Laboratories® are intended for research and laboratory use

RESTRICTIONS ON USE: only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or

pesticidal products, food additives, or as household chemicals.

#### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture:

**GHS** Classification:

H228 - Flammable solids (Category 2)

H302 - Acute toxicity, Oral (Category 4)

H332 - Acute toxicity, Inhalation (Category 4)

H315 - Skin irritation (Category 2)

H318 - Serious eye damage (Category 1)

H335 - Specific target organ toxicity - single exposure (Category 3), Respiratory system

H401 - Acute aquatic toxicity (Category 2)

H412 - Chronic aquatic toxicity (Category 3)

# GHS Label elements, including hazard and precautionary statements:

Pictogram:



Signal Word:

Danger

# **Precautionary Statements:**

**Hazard Statements:** 

H228 – Flammable solid.

 $H302 + H332 - Harmful\ if\ swallowed\ or\ if\ inhaled.$ 

H315 – Causes skin irritation.

H318 – Causes serious eye damage.

H335 – May cause respiratory irritation.

H401 – Toxic to aquatic life.

P210 – Keep away from heat/sparks/open flames/hot

surfaces. – No smoking. P261 – Avoid breathing dust.

P273 – Avoid release to the environment.

P280 – Wear protective gloves/protective clothing/eye

protection/face protection.

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 or decree physician

doctor/ physician.

Hazards not otherwise classified (HNOC) or not covered by GHS: - none

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: SDS; Sodium Lauryl Sulfate

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CAS No: 151-21-3Formula:  $C_{12}H_{25}NaO_4S$ Molecular Weight: 288.38 g/molEC No.: 205-788-1

Ingredient	CAS Number	Percent	Hazardous
Sodium Dodecyl Sulfate	151-21-3	>99 %	No exposure limits established by OSHA or ACGIH

#### 4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous

area.

<b>Route of Entry</b>	Symptoms	First Aid Procedures
Ingestion	May cause irritation if swallowed	If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. <b>Get medical attention.</b>
Inhalation	May cause irritation to respiratory tract	Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. <b>Get medical attention.</b>
Eye Contact	Direct contact may cause irritation. May cause redness, tearing, or blurred vision.	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. <b>Get medical attention if irritation persists.</b>
Skin Contact	Irritating. May cause reddening, itching or inflammation.	Wash area thoroughly with soap and water. Remove and wash contaminated clothing. <b>Get medical attention if irritation persists.</b>

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

# 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use

extinguishing media suitable for surrounding fire.

Special Protective Equipment and

Precaution for Firefighters:

In the event of a fire, wear full protective clothing and NIOSH approved self-

contained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products: May emit toxic fumes under fire conditions.

### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method of Containment and Cleanup: Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and

remove. Place material in a dry container and cover. Remove from the area. Flush

spill area with water. Do not let product enter drains.

### 7. HANDLING AND STORAGE

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Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid

incompatible substances. Provide adequate ventilation at places where dust is formed.

Wash thoroughly after use.

Conditions for Safe Storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.

Incompatibilities: Strong oxidizing agent

Recommended Storage Temperature: Room Temperature

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): None

Threshold Limit Values (TLVs): None

Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where

eye contact can occur.

Skin Protection: Protective gloves

Body Protection: Lab coat

Respiratory Protection: Respiratory protection is not required.

Use N95 (US) or type P1 (EN 143) dust mask where dust level is nuisance.

A NIOSH/MSHA approved air purifying respirator is recommended where airborne concentrations are expected to exceed exposure limits. Protection provided by purifying

respirators is limited.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to off-white powder

pH: No data available Solubility: Soluble in water

Melting Range: 204 - 207 °C (399 - 405 °F) - lit.

Vapor Density: No data available

Vapor Pressure: 0.0018 hPa (0.0014 mmHg) at 20 °C (68 °F)

Specific Gravity: No data available

Odor: Strong, characteristic odor

Odor Threshold: No data available
Viscosity: No data available

Relative Density: 0.370 g/cm<sup>3</sup>

Evaporation Rate: No data available

Initial Boiling Point and

Boiling Range: No data available

Flammability (solid, gas): No data available

Partition coefficient:

n-octanol/water): log Pow: 0.83 at 22 °C (72 °F)

Auto-ignition Temperature: 310.5 °C (590.9 °F)

Decomposition Temperature: No data available

Flash Point (Closed Cup): 170 °C (338 °F)

Flammable Limits: Upper (%) – No data available Lower (%) – No data available

### 10. STABILITY AND REACTIVITY

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Reactivity: No data available

Chemical Stability: Stable under normal conditions of use

Possibility of Hazard Reactions: No data available

Conditions to Avoid: Heat, flames and sparks
Incompatibles Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide

#### 11. TOXICOLOGICAL INFORMATION

Toxicity: LD<sub>50</sub> (Oral-Rat)(mg/Kg) 977

 $LD_{50}$  (Dermal-Rabbit)(mg/Kg) >2000  $LD_{50}$  (Inhalation-Rat)(mg/Kg) 3.9

Carcinogenicity: NTP: No

IARC: No OSHA Reg: No

Reproductive Toxicity: No data available

Specific Target Organ

Toxicity:

Single Exposure: No data available

Repeated Exposure: No data available

Target Organs: Respiratory system, eyes, liver

Routes of Entry: Ingestion, inhalation, skin and eye contact

NIOSH/RTECS NO: WT1050000

# The toxicological properties of this product have not been thoroughly investigated

### 12. ECOLOGICAL INFORMATION

Ecotoxicity: Toxicity to fish - flow-through test LC50 –

Pimephales promelas (fathead minnow) - 29 mg/l - 96 h

(OECD Test Guideline 203)

Toxicity to daphnia - flow-through test EC50 – 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 (Scenedesmus subspicatus) -> 120 mg/l - 72 h

Persistence and Degradability: 95% readily biodegradable

Bioaccumulative Potential: Bioconcentration factor (BCF): 3.9 – 5.3

Mobility in Soil: No data available
Other Adverse Effects: No data available

## 13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental

regulations.

# 14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: Flammable solids, organic, n.o.s. (Sodium dodecyl sulphate)

Hazard Class: 4.1 Packing group: III

Reportable Quantity: N/A

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UN/NA: 1325

Labels: N/A

International:

IMDG: Proper Shipping Name: Flammable solids, organic, n.o.s. (Sodium dodecyl sulphate)

Hazard Class: 4.1 Packing group: III EMS-No.: F-A, S-G

UN/NA: 1325

Labels: N/A

IATA: Proper Shipping Name: Flammable solids, organic, n.o.s. (Sodium dodecyl sulphate)

Hazard Class: 4.1 Packing group: III

UN/NA: 1325

Labels: N/A

#### 15. REGULATORY INFORMATION

TSCA: Yes

**SARA TITLE III:** 

Section 302 (EHS) Ingredients: No
Section 313 Ingredients: No
Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: Fire Hazard, Acute Health Hazard

**Massachusetts Right to Know Components:** This product is not on the Massachusetts Substance List (MSL).

Pennsylvania Right to Know Components: This product is not listed on the Pennsylvania Code's Hazardous Substance

List (Chapter 323).

**New Jersey Right to Know Components:** This product is not listed amongst the New Jersey Right to Know Hazardous

**Substance Fact Sheets** 

California Prop. 65 Components: This product is not known to the State of California to cause cancer or

reproductive toxicity.

### 16. OTHER INFORMATION

**HMIS Rating:** 

**NFPA Rating:** 

Н	ealth Hazard	Flammability	Physical Hazard	Personal Protection
	2	2	2	С
Н	ealth Hazard	Fire Hazard	Instability	Special Hazard

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