



Material Safety Data Sheet

Catalog Number: 811030
Revision Date: 13-May-2010

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 811030

Product Name: SODIUM DODECYL SULFATE, ULTRA PURE

Synonyms: Sodium Lauryl Sulfate; Sulfuric Acid, Monododecyl Ester, Sodium Salt; Dodecyl Sulfate, sodium salt; SLS; SDS; Neutrazyme; Lauryl Sulfate Sodium Salt; SDS Running Buffer

Supplier:

MP Biomedicals, LLC
29525 Fountain Parkway
Solon, OH 44139
tel: 440-337-1200

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA Exposure Limits:
SODIUM DODECYL SULFATE	151-21-3	90 - 100%	None	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Harmful by inhalation, in contact with skin and if swallowed., Combustible material

Category of Danger:

Harmful

Principle routes of exposure: Skin

Inhalation: Harmful by inhalation.

Ingestion: Harmful if swallowed.

Skin contact: Harmful in contact with skin.

Eye contact: Risk of serious damage to eyes

ANSI Classification Irritant - eye, skin, respiratory

Statements of hazard HARMFUL IF SWALLOWED. MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR INHALED.

COMBUSTIBLE MATERIAL AND VAPOR.

Statement of Spill or Leak - ANSI Label Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment.

Statement of First Aid If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call a physician. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

Precautions - ANSI Label Do not taste or swallow. Wash thoroughly after handling. Keep away from heat and flame. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Avoid breathing vapors. Avoid prolonged or repeated contact with the skin, eyes or respiratory tract. Wash thoroughly after exposure.

4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Inhalation: Move to fresh air. Call a physician immediately.

Skin contact: Rinse immediately with plenty of water for at least 15 minutes. Call a physician immediately.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Protection of first-aiders: No information available.

Medical conditions aggravated by exposure: None known.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Use dry chemical, CO₂, water spray or "alcohol" foam combustible material.

Specific hazards:

None known.

Unusual hazards:

Special protective equipment for firefighters:

Wear self-contained breathing apparatus for fire fighting if necessary.

Specific methods:

Water mist may be used to cool closed containers.

Flash point:

199 °C

Autoignition temperature:

248 °C (powder containing 90% SLS); 447 °C (solution containing 14.8% SLS)

NFPA rating:

NFPA Health:	1
NFPA Flammability:	1
NFPA Reactivity:	0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Use personal protective equipment. Remove all sources of ignition.

Environmental precautions:

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up:

Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Storage:

ROOM TEMPERATURE.

Handling:

Use only in area provided with appropriate exhaust ventilation.

Safe handling advice:

Wear personal protective equipment. Remove and wash contaminated clothing before reuse.

Technical measures/storage conditions:

Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat and sources of ignition. Keep container tightly closed in a dry and well-ventilated place.

Incompatible products:

Oxidizing and spontaneously flammable products.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation.

PERSONAL PROTECTIVE EQUIPMENT

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection: Breathing apparatus only if aerosol or dust is formed.

Hand protection: PVC or other plastic material gloves

Skin and body protection: Impervious clothing

Eye protection: Goggles

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor

White cream colored or light yellow crystalline; faint fatty odor

Physical state:

Powder

Formula:

C₁₂H₂₅O₄S•Na

Molecular weight:

288.38

Melting point/range:

204 - 207 °C

Boiling point/range:

No data available at this time.

Density:

Greater than 1.1 at 20 °C (water = 1)

Vapor pressure:

Practically zero

Evaporation rate:

No data available

Vapor density:

No data available

Solubility (in water):

Soluble

Flash point:

199°C

Autoignition temperature:

248 °C (powder containing 90% SLS); 447 °C (solution containing 14.8% SLS)

10. STABILITY AND REACTIVITY

Stability:

Stable under recommended storage conditions.

Polymerization:

None under normal processing.

Hazardous decomposition products:

Sulphur oxides, Sodium oxides (Na₂O)

Materials to avoid:

Strong oxidizing agents

Conditions to avoid:

Exposure to air or moisture over prolonged periods.

11. TOXICOLOGICAL INFORMATION

Product Information

Acute toxicity

Components

SODIUM DODECYL SULFATE

RTECS Number:

WT1050000

Selected LD50s and LC50s

Inhalation LC50 Rat : >3900 mg/m³/1H

Oral LD50 Rat : 1288 mg/kg

Chronic toxicity:

Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.

Local effects:

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Specific effects:

May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.

Primary irritation:

No data is available on the product itself.

Carcinogenic effects:

No data is available on the product itself.

Mutagenic effects:

Substances which cause concern for man owing to possible mutagenic effects but for which the available information is not adequate for making a satisfactory assessment.

Reproductive toxicity:

Experiments have shown reproductive toxicity effects on laboratory animals.

12. ECOLOGICAL INFORMATION

Mobility: Bioaccumulation: Ecotoxicity effects: Aquatic toxicity:	No data available No data available No data available May cause long-term adverse effects in the aquatic environment.
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Components	U.S. DOT - Appendix B - Marine Pollutants	U.S. DOT - Appendix B - Severe Marine Pollutants	United Kingdom - The Red List:
SODIUM DODECYL SULFATE	Not Listed	Not Listed	Not Listed
Components	Germany VCI (WGK)	World Health Organization (WHO) - Drinking Water	Ecotoxicity - Fish Species Data
SODIUM DODECYL SULFATE	Not Listed	Not Listed	LC50 (96 hr) fathead minnow (fry):10.2 mg/L.;LC50 (96 hr) fathead minnow (juvenile):17 mg/L.;LC50 (96 hr) fathead minnow (adult):22.5 mg/L.;LC50 (96 hr) rainbow trout:4.6-6.2 mg/L. Cond:Static.
Components	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Microtox Data	Ecotoxicity - Water Flea Data
SODIUM DODECYL SULFATE	Not Listed	EC50 (30 min) Photobacterium phosphoreum:0.5-1.2 mg/L Microtox test.:	EC50 (48 hr) water flea:6.2-49.4 mg/L.:
Components	EPA - ATSDR Priority List	EPA - HPV Challenge Program Chemical List	California - Priority Toxic Pollutants
SODIUM DODECYL SULFATE	Not Listed	Listed.	Not Listed
Components	California - Priority Toxic Pollutants	California - Priority Toxic Pollutants	
SODIUM DODECYL SULFATE	Not Listed	Not Listed	

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Contaminated packaging: Methods for cleaning up:	Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous. Do not re-use empty containers Soak up with inert absorbent material.
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14. TRANSPORT INFORMATION

UN/Id No:	Not regulated
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DOT:

Proper shipping name:	Not Regulated
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14. TRANSPORT INFORMATION

TDG (Canada):**WHMIS hazard class:**

D2b toxic materials

IMDG/IMO**IMO-labels:**

15. REGULATORY INFORMATION

International Inventories

SODIUM DODECYL SULFATE

Inventory - United States TSCA - Sect. 8(b)

Listed.

Canada DSL Inventory List -

Listed.

Australia (AICS):

Listed.

Inventory - China:

Listed.

EU EINECS List -

2057881 Listed.

Inventory - Japan:

(2)-1679 Listed.

(2)-1675 Listed.

Korean KECL:

KE-21884

Philippines PICCS:

Listed.

U.S. regulations:**Components****U.S. DOT - Appendix A Table 1 -
Reportable Quantities**

Not Listed

**U.S. DOT - Appendix B - Marine
Pollutants**

Not Listed

**U.S. DOT - Appendix B - Severe
Marine Pollutants**

Not Listed

SODIUM DODECYL
SULFATE**Components****California Proposition 65**-
Not Listed**Massachusetts Right to
Know List:**

Not Listed

**New Jersey Right to
Know List:**

Not Listed

**Pennsylvania Right to Know
List:**

Not Listed

SODIUM DODECYL
SULFATE**Components****Florida substance List:**

Not Listed

**Rhode Island Right to
Know List:**

Not Listed

**Illinois - Toxic Air
Contaminants**

Not Listed

**Connecticut - Hazardous Air
Pollutants**

Not Listed

SODIUM DODECYL
SULFATE

Components**SARA 313 Emission
reporting/Toxic Release
of Chemicals****CERCLA/SARA - Section NTP:
302 Extremely Haz****IARC:**SODIUM DODECYL
SULFATE

Not Listed

Not Listed

None

None

SARA 313 Notification:

The above is your notification as to the SARA 313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in Washington, DC or Alaska).

State Notification:

The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive hazards; and the compounds environmental impact if accidentally released.

16. OTHER INFORMATION**Prepared by:** Health & Safety

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End of Safety Data Sheet