



Material Safety Data Sheet

Catalog Number: 811034
Revision date: 26-Apr-2006

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 811034

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:

Oxidising and spontaneously flammable products

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation.

PERSONAL PROTECTIVE EQUIPMENT

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:	C ₁₂ -H ₂₅ -O ₄ -S•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 (Na ₂ O)
Materials to avoid:	Strong oxidising 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: No data available
Bioaccumulation: No data available
Ecotoxicity effects: No data available
Aquatic toxicity: May cause long-term adverse effects in the aquatic environment.

Components SODIUM DODECYL SULFATE	U.S. DOT - Appendix B - Marine Pollutan Not Listed	U.S. DOT - Appendix B - Severe Marine Pollutants Not Listed	United Kingdom - The Red List: Not Listed
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Components SODIUM DODECYL SULFATE	Germany VCI (WGK) Not Listed	World Health Organization (WHO) - Drinking Water Not Listed	Ecotoxicity - Fish Species Data 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.
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Components SODIUM DODECYL SULFATE	Ecotoxicity - Freshwater Algae Data Not Listed	Ecotoxicity - Microtox Data EC50 (30 min) Photobacterium phosphoreum:0.5-1.2 mg/L Microtox test.:	Ecotoxicity - Water Flea Data EC50 (48 hr) water flea:6.2-49.4 mg/L.:
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Components SODIUM DODECYL SULFATE	EPA - ATSDR Priority List Not Listed	EPA - HPV Challenge Program Chemical List indicator 2; Not sponsored	California - Priority Toxic Pollutants Not Listed
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13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: 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.


Contaminated packaging: Do not re-use empty containers
Methods for cleaning up: Soak up with inert absorbent material.

14. TRANSPORT INFORMATION

UN/Id No: Not regulated

DOT:
Proper shipping name: Not Regulated

Components **U.S. DOT - Appendix A Table 1 - Reportable Quantities**
 SODIUM DODECYL SULFATE Not Listed

TDG (Canada):
WHMIS hazard class: D2b toxic materials


IMDG/IMO
IMDG - Hazard Classifications Not Applicable

Components **U.S. DOT - Appendix B - Marine Pollutant** **U.S. DOT - Appendix B - Severe Marine Pollutants**
 SODIUM DODECYL SULFATE Not Listed Not Listed

IMO-labels:

15. REGULATORY INFORMATION

International Inventories

Components
 SODIUM DODECYL SULFATE
Inventory - United States TSCA - Sect. 8(b) Present
Canada DSL Inventory List - Present
Australia (AICS): Present
Inventory - China: Present
EU EINECS List - 205-788-1; C12H26O4S.Na
Inventory - Japan: 2-1675; 2-1679
Korean KECL: KE-21884
Philippines PICCS: Present

U.S. regulations:

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

Components	Florida substance List:	Rhode Island Right to Know List:	Illinois - Toxic Air Contaminants	Connecticut - Hazardous Air Pollutants
SODIUM DODECYL SULFATE	Not Listed	Not Listed	Not Listed	Not Listed

ComponentsSODIUM DODECYL
SULFATE**SARA 313 Emission
reporting/Toxic Release
of Chemicals**
Not Listed**CERCLA/SARA - Section NTP:**
302 Extremely Haz
Not Listed

None

IARC:
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