

9-606

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INDEK: D61353909 CAT NO: BP166100 PO NBR: CROSSGROVE-URG

Material Safety Data Sheet

Sodium dodecyl sulfate  
MSDS# 08485

Section 1 - Chemical Product and Company Identification

MSDS Name: Sodium dodecyl sulfate  
Catalog Numbers: AC226140000, AC226145000, AC230420000, AC230421000, AC230425000, AC230425000, AC327310000, AC327315000, AC419530000, AC419530010, AC419530250, AC419530250, AC419531000, S799941, S799942, BP166-100, BP166-5, BP166-500, NC9147663, NC9257248, NC9296329, O2674-25, S529-3, S529-500, XXS529ET10KG, XXS529PD35KG, XXSLAUSUL10KG

Synonyms: SDS; Sodium lauryl sulfate; Dodecyl sodium sulfate; Sulfuric acid monododecyl ester, sodium salt; SLS; Dodecyl hydrogen sulfate sodium salt.

Company Identification: Fisher Scientific  
One Reagent Lane  
Fair Lawn, NJ 07410

For information in the US, call:  
201-796-7100  
Emergency Number US:201-796-7100  
CHEMTREC Phone Number, US:  
800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#: 151-21-3  
Chemical Name: Sodium lauryl sulfate  
%: >85  
EINECS#: 205-788-1

Hazard Symbols: XN F  
Risk Phrases: 11 22 36/38

Section 3 - Hazards Identification

EMERGENCY OVERVIEW  
Warning! Flammable solid. May cause respiratory tract irritation. May be harmful if swallowed. Causes eye and skin irritation. Target Organs: Respiratory system, eyes, skin. Potential Health Effects

Eye: Causes eye irritation.  
Skin: Causes skin irritation. Contact with the skin defats the skin.  
Ingestion: Causes gastrointestinal irritation with nausea, vomiting and diarrhea.  
Inhalation: Causes respiratory tract irritation. May cause severe allergic respiratory reaction. May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema.  
Chronic: Repeated exposure may cause allergic respiratory reaction (asthma). Chronic inhalation may lead to decreased pulmonary function.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.  
Skin: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.  
Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.  
Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Flammable solid.

Extinguishing Media: Use extinguishing media most appropriate for the surrounding fire.  
Autoignition Temperature: 248 deg C ( 478.40 deg F)  
Flash Point: Not applicable.  
Explosion Limits: Lower: Not available  
Explosion Limits: Upper: Not available  
NFPA Rating:

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health: 2; flammability: 3; instability: 0;  
Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.  
Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Reduce airborne dust and prevent scattering by moistening with water. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Remove all sources of ignition. Provide ventilation.  
Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Keep away from heat, sparks and flame. Avoid breathing dust.

Storage: Store in a cool, dry place. Store in a tightly closed container. Flammables-area.

Section 8 - Exposure Controls, Personal Protection  
Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sodium lauryl sulfate	none listed	none listed	none listed

OSHA Vacated PELs:  
Sodium lauryl sulfate:  
None listed

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.  
Skin: Wear appropriate protective gloves to prevent skin exposure.  
Clothing: Wear appropriate protective clothing to prevent skin exposure.  
Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Solid  
Color: white  
Odor: Faint odor of fatty substances.  
pH: 9.5 (1% aq soln)  
Vapor Pressure: Negligible  
Vapor Density: Not available  
Evaporation Rate: Not available  
Viscosity: Not available  
Boiling Point: decomposes  
Freezing/Melting Point: 204 - 207 deg C  
Decomposition Temperature: Not available  
Solubility in water: Freely Soluble  
Specific Gravity/Density:  
Molecular Formula: C12H25NaO4S  
Molecular Weight: 288.38

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.  
Conditions to Avoid: Dust generation, excess heat.  
Incompatibilities with Other Materials: Strong oxidizing agents.  
Hazardous Decomposition Products: Carbon monoxide, oxides of sulfur, carbon dioxide.  
Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 151-21-3: WT1050000  
LD50/LC50:  
RTECS: CAS# 151-21-3: Draize test, rabbit, eye: 100 mg/24H Moderate; Draize test, rabbit, eye: 250 ug Mild; Draize test, rabbit, eye: 2 mg; Draize test, rabbit, eye: 10 mg Moderate; Draize test, rabbit, skin: 50 mg/24H Severe; Draize test, rabbit, skin: 25 mg/24H Moderate; Draize test, rabbit, skin: 250

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mg/24H Moderate; Draize test, rabbit, skin: 10 mg/24H; Draize test, rabbit, skin: 50 mg/24H Mild; Inhalation, rat: LC50 = >3900 mg/m3/1H; Oral rat: LD50 = 1288 mg/kg;

## Carcinogenicity:

Sodium lauryl sulfate -  
 Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

## Epidemiology:

Not available

## Teratogenicity:

Not available

## Reproductive:

Not available

## Neurotoxicity:

Not available

## Mutagenicity:

Not available

## Other:

Not available

## Section 12 - Ecological Information

Not available

## Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

## Section 14 - Transport Information

## US DOT

Shipping Name: FLAMMABLE SOLIDS, ORGANIC, N.O.S.

Hazard Class: 4.1

UN Number: UN1325

Packing Group: III

## Canada TDG

Shipping Name: FLAMMABLE SOLIDS, ORGANIC, N.O.S.

Hazard Class: 4.1

UN Number: UN1325

Packing Group: III

## Section 15 - Regulatory Information

## US Federal

## TSCA

CAS# 151-21-3 is listed on the TSCA Inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 151-21-3: acute.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous

Substances under the CWA.

None of the chemicals in this product are listed as Priority

Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants

under the CWA.

OSHA:

STATE  
 Sodium lauryl sulfate is not present on state lists from CA, PA, MN,

MA, FL, or NJ.

California Prop 65

California No Significant Risk Level:

None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN F

Risk Phrases:

R 11 Highly flammable.

R 22 Harmful if swallowed.

R 36/38 Irritating to eyes and skin.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately

with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face

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protection.

WGK (Water Danger/Protection)

CAS# 151-21-3: 2

Canada

CAS# 151-21-3 is listed on Canada's DSL List

Canadian WHMIS Classifications: D2B, B4

This product has been classified in accordance with the hazard

criteria of the Controlled Products Regulations and the MSDS

contains all of the information required by those regulations.

CAS# 151-21-3 is listed on Canada's Ingredient Disclosure

List

Section 16 - Other Information

MSDS Creation Date:

2/04/1998

Revision #5 Date

10/28/2004

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 the company 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

howsoever arising, even if the company has been advised of the

possibility of such damages.