1. IDENTIFICATION

Product identifier

Product code: S1333
Product Name: SODIUM LAURYL SULFATE, REAGENT

Other means of identification
Synonyms:
Sodium dodecyl sulfate; Aquarex methyl;
Dodecyl alcohol, hydrogen sulfate, sodium salt;
Dodecyl sulfate sodium; Dreft; Duponal; Gardinal;
Irium; Lauryl Sodium Sulfate;
Lauryl sulfate, sodium salt; Melanol CL;
Perlantrol L; Sodium n-dodecyl sulfate;
Sodium Lauryl Sulphate; Sodium monododecyl sulfrate;
Sodium monolauryl sulfate;
Stepanol ME; Standapol WAQ;
Stepanol WAQ; Witcolate C, Witcolate A

CAS #: 151-21-3
RTECS #: WT1050000
Cl#: Not available

Recommended use of the chemical and restrictions on use
Recommended use: Emulsifying agent.
Uses advised against: No information available

Supplier:
Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com
Emergency telephone number: Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification
This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

| Acute toxicity - Oral | Category 4 |
| Acute toxicity - Dermal | Category 3 |
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2A |
| Specific target organ toxicity (single exposure) | Category 3 |
| Combustible dust | |

Product code: S1333  Product name: SODIUM LAURYL SULFATE, REAGENT
Label elements

Danger

Hazard statements
Harmful if swallowed
Toxic in contact with skin
Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation
May form combustible dust concentrations in air

Hazard statements

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area

Precautionary Statements - Response
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash it before reuse
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

Precautionary Statements - Storage
Store in a well-ventilated place. Keep container tightly closed
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product code: S1333 Product name: SODIUM LAURYL SULFATE, REAGENT
### 4. FIRST AID MEASURES

**First aid measures**

**General Advice:**
Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself. National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

**Skin Contact:**
Toxic in contact with skin. Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Remove all contaminated clothes and shoes. Get medical attention. Call a physician or Poison Control Centre immediately.

**Eye Contact:**
Flush eyes with water for 15 minutes. Get medical attention.

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

**Ingestion:**
Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Harmful if swallowed. Obtain medical attention.

**Most important symptoms and effects, both acute and delayed**

**Symptoms**
- Causes eye irritation
- Causes skin irritation
- Ingestion may cause nausea, vomiting, and diarrhea
- May cause stomach bloating
- Somnolence
- Dust is irritating to respiratory tract
- May cause contact dermatitis

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:**
Treat symptomatically.

**Protection of first-aiders**
First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media**

**Suitable Extinguishing Media:**
Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.

**Unsuitable Extinguishing Media:**
No information available.

**Specific hazards arising from the chemical**

**Hazardous Combustion Products:**

**Specific hazards:**
May be combustible at high temperatures. Avoid generating dust. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is
a potential dust explosion hazard.

**Special Protective Actions for Firefighters**

**Specific Methods:** No information available.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

---

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions:** Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Remove all sources of ignition. Avoid dust formation. Avoid dispersal of dust in the air. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Non-sparking tools should be used.

**Environmental precautions** Prevent further leakage or spillage. Prevent entry into waterways, sewers, basements or confined areas.

**Methods and material for containment and cleaning up**

**Methods for containment** Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up** Sweep up and shovel into suitable containers for disposal. Use only non-sparking tools. Avoid creating dust. Clean contaminated surface thoroughly.

---

### 7. HANDLING AND STORAGE

**Technical Measures/Precautions:** Provide sufficient air exchange and/or exhaust in work rooms. Minimize dust generation and accumulation. Avoid dust formation. Dry powders can build static electricity charges when subjected to friction of transfer and mixing operations. All equipment used when handling the product must be grounded. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Keep away from incompatible materials.

**Safe Handling Advice**
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Technical Measures/Storage Conditions:**
Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

**Incompatible Materials:** Strong oxidizing agents

---

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**National occupational exposure limits**

**Product code:** S1333  **Product name:** SODIUM LAURYL SULFATE, REAGENT
### Appropriate engineering controls

**Engineering measures to reduce exposure:**
Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e. there is no leakage from the equipment). It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in the handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment.

### Individual protection measures, such as personal protective equipment

**Personal Protective Equipment**

- **Eye protection:** Goggles or Safety glasses with side-shields
- **Skin and body protection:** Long sleeved clothing, Chemical resistant apron, Gloves
- **Respiratory protection:** Effective dust mask. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.
- **Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.
10. STABILITY AND REACTIVITY

Reactivity
Reactive with oxidizing agents

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Avoid dust formation. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Incompatible materials.

Incompatible Materials: Strong oxidizing agents


Other Information
Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Product code: S1333
Product name: SODIUM LAURYL SULFATE, REAGENT

Physical state: Solid
Appearance: Powder.
Color: White. Light yellow.

Odor: Faint odor of fatty substances.
Taste: No information available.
Formula: C12-H25-O4-S-Na

Molecular/Formula weight (g/mole): 288.38
Flammability: No information available
Flashpoint (°C/°F): No information available

Flash Point Tested according to: Not available
Autoignition Temperature (°C/°F): No information available
Lower Explosion Limit (%): No information available

Upper Explosion Limit (%): No information available
Melting point/range(°C/°F): 204-207 °C/399.2-404.6 °F
Decomposition temperature(°C/°F): No information available

Boiling point/range(°C/°F): No information available
Bulk density: No information available
Density (g/cm3): No information available

Specific gravity: 0.4-0.48
pH: No information available
Vapor pressure @ 20°C (kPa): No information available

Evaporation rate: No information available
Vapor density: No information available
VOC content (g/L): No information available

Odor threshold (ppm): No information available
Partition coefficient (n-octanol/water): 1.6
Viscosity: No information available

Miscibility: No information available
Solubility: Soluble in Water
Solubility in Water: 150 g/L at 20 °C

Color: No information available
Flashpoint (°C/°F): No information available
**Information on likely routes of exposure**

Principal Routes of Exposure:  
Ingestion. Inhalation.

**Acute Toxicity**

Component Information

<table>
<thead>
<tr>
<th>Sodium Lauryl Sulfate</th>
<th>CAS-No. 151-21-3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LD50/oral/rat</strong></td>
<td>1288 mg/kg Oral LD50 Rat (RTECS)</td>
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<tr>
<td></td>
<td>977 mg/kg (LOLI and European Commission IUCLID dataset)</td>
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<tr>
<td><strong>LD50/oral/mouse</strong></td>
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<tr>
<td><strong>LD50/dermal/rabbit</strong></td>
<td>580 mg/kg Dermal LD50Rabbit</td>
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<td><strong>LD50/dermal/rat</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>LC50/inhalation/rat</strong></td>
<td>&gt;3900 mg/m³ Inhalation LC50 Rat 1 h</td>
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<tr>
<td><strong>LC50/inhalation/mouse</strong></td>
<td>No information available</td>
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<tr>
<td><strong>Other LD50 or LC50 information</strong></td>
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</tr>
</tbody>
</table>

**Product Information**

- **LD50/oral/rat** = VALUE- Acute Tox Oral = 977 mg/kg
- **LD50/oral/mouse** = Value - Acute Tox Oral = No information available
- **LD50/dermal/rabbit** = VALUE-Acute Tox Dermal = 580 mg/kg
- **LD50/dermal/rat** = VALUE - Acute Tox Dermal = No information available
- **LC50/inhalation/rat** = VALUE-Vapor = No information available
- **VALUE-Gas** = No information available
- **VALUE-Dust/Mist** = >3900 mg/m³ (1-hr)
- **LC50/Inhalation/mouse** = VALUE-Vapor = No information available
- **VALUE - Gas** = No information available
- **VALUE - Dust/Mist** = No information available

**Symptoms**

- **Skin Contact**: Toxic in contact with skin. Causes skin irritation.
- **Eye Contact**: Causes eye irritation.
- **Inhalation**: Irritating to respiratory system. Symptoms may include coughing and shortness of breath. May cause sore throat.
- **Ingestion**: Harmful if swallowed. Causes digestive (gastrointestinal) tract irritation. Ingestion may cause nausea, vomiting, diarrhea. May cause stomach bloating. May affect behavior/central nervous system (somnolence).

**Product code**: S1333  
**Product name**: SODIUM LAURYL SULFATE, REAGENT
Aspiration hazard  
No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity**
Prolonged or repeated ingestion may affect the liver. Prolonged or repeated skin contact may cause dryness of the skin. Prolonged skin contact may cause skin irritation and/or dermatitis.

**Sensitization:**
No information available.

**Mutagenic Effects:**
May affect genetic material
Mutations in microorganisms

**Carcinogenic effects:**
Not considered carcinogenic.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
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</thead>
<tbody>
<tr>
<td>Sodium Lauryl Sulfate</td>
<td>151-21-3</td>
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<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
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</tr>
</tbody>
</table>

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*IARC (International Agency for Research on Cancer)*

*NTP (National Toxicology Program)*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

**Reproductive toxicity**
No data is available

**Reproductive Effects:**
No information available

**Developmental Effects:**
May cause adverse developmental effects based on animal data
Increased rates of fetal anomalies and fetal death were reported in association with maternal toxicity among the offspring of pregnant mice treated orally with 200 mg/kg/day or topically with 170 to 1700 mg/kg/day of Sodium Lauryl Sulfate (REPROTOX)

**Teratogenic Effects:**
No information on developmental toxicity effects on humans was found

**Specific Target Organ Toxicity**

**STOT - single exposure**
Respiratory system. lungs.

**STOT - repeated exposure**
No information available.

**Target Organs:**
No information available.

---

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:**
Aquatic environment.

*Sodium Lauryl Sulfate - 151-21-3*

**Freshwater Algae Data:**
3.59 - 15.6 mg/L EC50 Pseudokirchneriella subcapitata 96 h
30 - 100 mg/L EC50 Desmodesmus subspicatus 96 h
117 mg/L EC50 Pseudokirchneriella subcapitata 96 h
53 mg/L EC50 Desmodesmus subspicatus 72 h

**Freshwater Fish Species Data:**
10.2 - 22.5 mg/L LC50 Pimephales promelas 96 h semi-static 1
10.8 - 16.6 mg/L LC50 Poecilia reticulata 96 h static 1

**Product code:** S1333

**Product name:** SODIUM LAURYL SULFATE, REAGENT
13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

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<tbody>
<tr>
<td>Sodium Lauryl Sulfate</td>
<td>151-21-3</td>
<td>None</td>
<td>None</td>
<td>None</td>
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</tbody>
</table>

14. TRANSPORT INFORMATION

DOT

UN-No: UN2811
Proper Shipping Name: Toxic solids, organic, n.o.s. (clonidine hydrochloride)
Hazard Class: 6.1
Subsidiary Class: No information available
Packing group: III
Emergency Response Guide Number: No information available

Marine Pollutant: No data available
DOT RQ (lbs): No information available
Special Provisions: No Information available
Symbol(s): [DOT]: (G) - Identifies proper shipping names for which one or more technical names of the hazardous material must be entered in parentheses, in association with the basic description.

Description: UN2811, Toxic solids, organic, n.o.s., 6.1, PG III

TDG (Canada)

UN-No: UN2811

Product code: S1333  Product name: SODIUM LAURYL SULFATE, REAGENT
Proper Shipping Name: Toxic solid, organic, n.o.s.
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant: No Information available
Description: TOXIC SOLID, ORGANIC, N.O.S.,6.1,UN2811,PG III

ADR
UN-No: UN2811
Proper Shipping Name: Toxic solid, organic, n.o.s.
Hazard Class: 6.1
Packing Group: III
Subsidiary Risk: No information available
Description: UN2811 Toxic solid, organic, n.o.s.,6.1,III

IMO / IMDG
UN-No: UN2811
Proper Shipping Name: Toxic solid, organic, n.o.s.
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant: No information available
EMS: F-A

RID
UN-No: UN2811
Proper Shipping Name: Toxic solid, organic, n.o.s.
Hazard Class: 6.1
Subsidiary Risk: 6.1
Packing Group: III
Description: UN2811 Toxic solid, organic, n.o.s.,6.1,III,RID

ICAO
UN-No: UN2811
Proper Shipping Name: Toxic solid, organic, n.o.s.
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
Description: Toxic solid, organic, n.o.s.,6.1,UN2811,PG III

IATA
UN-No: UN2811
Proper Shipping Name: Toxic solid, organic, n.o.s.
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
ERG Code: 6L
Special Provisions: No information available
Description: UN2811,Toxic solid, organic, n.o.s.,6.1,PG III

15. REGULATORY INFORMATION

International Inventories

<table>
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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<td>Present KE-21884</td>
<td>Present</td>
<td>Present (2)-1679 (2)-1675</td>
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Product code: S1333
Product name: SODIUM LAURYL SULFATE, REAGENT
U.S. Regulations

Sodium Lauryl Sulfate
FDA - Direct Food Additives 21 CFR 172.210 21 CFR 172.822
FDA - 21 CFR - Total Food Additives 172.210 172.822 175.105 175.300 175.320 176.170 176.180 176.210 177.1200 177.1210 177.1630 177.2600 177.2800 178.1010 178.3400 179.45


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
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<tbody>
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CERCLA/SARA

<table>
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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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<tbody>
<tr>
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U.S. TSCA

<table>
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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
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<tbody>
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<td>151-21-3</td>
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</tbody>
</table>

Canada

WHIMIS 2015 - GHS Classifications

WHIMIS 2015 Hazard Classification Information:

Component
Sodium Lauryl Sulfate
151-21-3 ( 100 )

WHIMIS 2015 Hazard Classification
Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.; Skin corrosion/irritation - Category 2: H315 Causes skin irritation.; Serious Eye Damage/Eye Irritation - Category 2A: H319 Causes serious eye irritation.; Combustible Dust - Category 1: May form combustible dust concentrations in air (factors such as combustibility and explosiveness of dusts including composition and shape and size of particles could cause substance to belong to 'Combustible dust' hazard class)

Canada Hazardous Products Regulation
This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

WHIMIS 1988 Hazard Class
D2B Toxic materials

Components
Sodium Lauryl Sulfate

WHIMIS 1988
D2B

Product code: S1333 Product name: SODIUM LAURYL SULFATE, REAGENT
Canada Controlled Products Regulation:
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components | WHMIS Ingredient Disclosure List - Sodium Lauryl Sulfate | 1 %

Inventory

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<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
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<td>Sodium Lauryl Sulfate</td>
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EU Classification

EU GHS - SV - CLP 1272/2008

<table>
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<th>Components</th>
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<th>EU GHS - SV - CLP (1272/2008)</th>
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<tbody>
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<td>Sodium Lauryl Sulfate</td>
<td>151-21-3</td>
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</tbody>
</table>

EU - CLP (1272/2008)

R-phrase(s)

R21/22 - Harmful in contact with skin and if swallowed.
R36/37/38 - Irritating to eyes, respiratory system and skin.

S-phrase(s)

none

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
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<td>Sodium Lauryl Sulfate</td>
<td>151-21-3</td>
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</table>

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
Xn - Harmful.
Xi - Irritant.

Xn Xi

16. OTHER INFORMATION

Preparation Date: 5/7/2014
Revision Date: 07/25/2018
Prepared by: Sonia Owen

Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product

Product code: S1333 Product name: SODIUM LAURYL SULFATE, REAGENT
is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet