SAFETY DATA SHEET

Preparation Date: 5/7/2014
Revision Date: 5/7/2014
Revision Number: G1

1. IDENTIFICATION

Product identifier
Product code: SO180
Product Name: SODIUM LAURYL SULFATE, NF, EP, BP, JP

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

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

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

Supplier: Spectrum Chemicals and Laboratory Products, Inc.
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: Regina Wachenheim (East Coast)

2. HAZARDS IDENTIFICATION

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Acute toxicity - Oral</th>
<th>Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Dermal</td>
<td>Category 3</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2A</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
</tbody>
</table>
Label elements

Danger

Hazard statements
Harmful if swallowed
Toxic in contact with skin
Causes skin irritation
May cause respiratory irritation. May cause drowsiness or dizziness
May form combustible dust concentrations in air

Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards
Toxic to aquatic life with long lasting effects
Toxic to aquatic life

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
Specific treatment (see .? on this label)
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 soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position 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

Product code: SO180
Product name: SODIUM LAURYL SULFATE, NF, EP, BP, JP
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
<th>Trade Secret</th>
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<tbody>
<tr>
<td>Sodium Lauryl Sulfate</td>
<td>151-21-3</td>
<td>100</td>
<td>*</td>
</tr>
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</table>

4. FIRST AID MEASURES

First aid measures
General Advice: Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.

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 eye 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 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: Carbon monoxide; Carbon dioxide

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.

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### 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. Clean contaminated surface thoroughly.

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### 7. HANDLING AND STORAGE

**Precautions for safe handling**

**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. Avoid dust formation. Do not ingest. Do not breathe vapours/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.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**National occupational exposure limits**

**U.S Occupational Exposure Limits:** Not determined
### United States

<table>
<thead>
<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
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### Canada

**Canada Occupational Exposure Limits:** Not determined

<table>
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<tr>
<th>Components</th>
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<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
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</table>

### Australia and Mexico

**Occupational Exposure Limits for Australia and Mexico:** Not determined

<table>
<thead>
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<th>Components</th>
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<th>Mexico</th>
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<tbody>
<tr>
<td>Sodium Lauryl Sulfate 151-21-3</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

### 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 exhause 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.
- **Skin and body protection:** Long sleeved clothing. Chemical resistant apron. Gloves.
- **Respiratory protection:** Wear respirator with dust filter.
- **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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Product code:** SO180  
**Product name:** SODIUM LAURYL SULFATE, NF, EP, BP, JP
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tr>
<td>Physical state:</td>
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<tr>
<td>Appearance:</td>
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<tr>
<td>Color:</td>
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<tr>
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<td>Faint odor of fatty substances.</td>
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<td>Taste:</td>
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<td>Odor threshold (ppm):</td>
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<td>Partition coefficient (n-octanol/water):</td>
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<tr>
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</tr>
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</table>

10. STABILITY AND REACTIVITY

Reactivity
Reactive with oxidizing agents

Chemical stability
Stability: Stable at normal 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: SO180
Product name: SODIUM LAURYL SULFATE, NF, EP, BP, JP
11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Ingestion. Inhalation.

Acute Toxicity

Component Information

Sodium Lauryl Sulfate - 151-21-3

LD50/oral/rat = 1288 mg/kg Oral LD50 Rat (RTECS)
977 mg/kg (LOLI and European Commission IUCLID dataset)
LD50/oral/mouse = No information available
LD50/dermal/rabbit = 580 mg/kg Dermal LD50 Rabbit
LD50/dermal/rat = No information available
LC50/inhalation/rat = >3900 mg/m³ Inhalation LC50 Rat 1 h
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = 977mg/kg

LD50/oral/mouse =
Value - Acute Tox Oral = No information available

LD50/dermal/rabbit
VALUE-Acute Tox Dermal = 580mg/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 = >3900mg/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 bloating. May affect behavior/central nervous system (somnolence).

Aspiration hazard: No information available

Product code: SO180
Product name: SODIUM LAURYL SULFATE, NF, EP, BP, JP
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

**Components**

<table>
<thead>
<tr>
<th>Components</th>
<th>ACGIH - Carcinogens</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
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</thead>
<tbody>
<tr>
<td>Sodium Lauryl Sulfate</td>
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<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
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</tr>
</tbody>
</table>

**Reproductive toxicity**
No data is available

**Reproductive Effects:**
No information available

**Developmental Effects:**
- May cause 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). No information on developmental toxicity effects on humans was found.

**Teratogenic Effects:**
No information available

**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
### Persistence and degradability:
No information available

### Bioaccumulative potential:
Potential for bioconcentration in aquatic organisms is moderate.

### Mobility:
Expected to be immobile in soil based on estimated Koc.

### 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.

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Lauryl Sulfate</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

### 14. TRANSPORT INFORMATION

**DOT**
- **UN-No:** UN2811
- **Proper Shipping Name:** Toxic solids, organic, n.o.s.
- **Hazard Class:** 6.1
- **Subsidiary Risk:** Not applicable
- **Packing Group:** III
- **Marine Pollutant:** No data available
- **ERG No.:** 154
- **DOT RQ (lbs):** No information available
- **Symbol(s):** G

**TDG (Canada)**
- **Product code:** SO180
- **Product name:** SODIUM LAURYL SULFATE, NF, EP, BP, JP
<table>
<thead>
<tr>
<th><strong>14. TRANSPORT INFORMATION</strong></th>
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<tr>
<td><strong>UN-No:</strong> UN2811</td>
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<tr>
<td><strong>Proper Shipping Name:</strong> Toxic solid, organic, n.o.s.</td>
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<td><strong>Hazard Class:</strong> 6.1</td>
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<td><strong>Subsidiary Risk:</strong> No information available</td>
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<tr>
<td><strong>Packing Group:</strong> III</td>
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<tr>
<td><strong>Description:</strong> No information available</td>
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</table>

**ADR**

| **UN-No:** UN2811 |
| **Proper Shipping Name:** Toxic solid, organic, n.o.s. |
| **Hazard Class:** 6.1 |
| **Packing Group:** III |
| **Classification Code:** No information available |
| **CEFIC Tremcard No:** No information available |

**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 |
| **Description:** No information available |
| **IMDG Page:** No information available |
| **Marine Pollutant** |
| **EMS:** F-A |
| **MFAG:** No information available |
| **Maximum Quantity:** No information available |

**RID**

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

**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:** No information available |

**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 |
| **Description:** No information available |

**Product code:** SO180  **Product name:** SODIUM LAURYL SULFATE, NF, EP, BP, JP
15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>KOREA KECL (PICCS)</th>
<th>Philippines ENCS (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<tr>
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<td>Present (2)-1679 (2)-1675</td>
<td>Present</td>
<td>Present</td>
<td>Present 205-788-1</td>
</tr>
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</table>

U.S. Regulations


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>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
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CERCLA/SARA

<table>
<thead>
<tr>
<th>Components</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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U.S. TSCA

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<thead>
<tr>
<th>Components</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>
<tr>
<td>Sodium Lauryl Sulfate</td>
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<td>Not Applicable</td>
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</tbody>
</table>

Canada

WHMIS hazard class:
D2B  Toxic materials

Sodium Lauryl Sulfate
D2B

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.

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<th>Components</th>
<th>WHMIS Ingredient Disclosure List -</th>
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Inventory

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<table>
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<tr>
<th>Components</th>
<th>CEPA Schedule I - Toxic Substances</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
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<tbody>
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<td>Sodium Lauryl Sulfate</td>
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</table>

EU Classification

**R-phrase(s)**
R21/22 - Harmful in contact with skin and if swallowed.
R36/37/38 - Irritating to eyes, respiratory system and skin.

<table>
<thead>
<tr>
<th>Components</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
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</thead>
<tbody>
<tr>
<td>Sodium Lauryl Sulfate</td>
<td></td>
<td>No information</td>
<td></td>
</tr>
</tbody>
</table>

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

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

16. OTHER INFORMATION

**Product code:** SO180
**Product name:** SODIUM LAURYL SULFATE, NF, EP, BP, JP
16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
<th>Personal Protective Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

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 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 Material Safety Data Sheet