2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:
- Acute Toxicity - Oral [Category 4]
- Skin Corrosion/Irritation [Category 2]
- Eye Damage/Irritation [Category 2A]
- Specific Target Organ Toxicity (Single Exposure) [Category 3]
- Specific Target Organ Toxicity (Repeated Exposure) [Category 2]
- Aquatic Hazard (Acute) [Category 2]

WHMIS 2015:
- Acute Toxicity - Oral [Category 4]
- Skin Corrosion/Irritation [Category 2]
- Eye Damage/Irritation [Category 2A]
- Specific Target Organ Toxicity (Single Exposure) [Category 3]
- Specific Target Organ Toxicity (Repeated Exposure) [Category 2]
- Aquatic Hazard (Acute) [Category 2]

Signal word:
- Warning!

Hazard Statement(s):
- Harmful if swallowed
- Causes skin irritation
- Causes serious eye irritation
- Toxic to aquatic life
- May cause respiratory irritation.
- May cause damage to organs through prolonged or repeated exposure: Kidney

Pictogram(s) or Symbol(s):

Precautionary Statement(s):

[Prevention]
Do not breathe dust, fume, mist, vapors or spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves, eye protection.

[Response]
If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice or 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 if you feel unwell. 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 or attention. Get medical advice or attention if you feel unwell. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

[Storage]
Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

[Disposal]

Hazards not otherwise classified:
[HNOC]
None.
3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance
Components: Sodium Dodecyl Sulfate [for Electrophoresis]
Percent: >97.0%(GC)(T)
CAS RN: 151-21-3
Molecular Weight: 288.38
Chemical Formula: C_{12}H_{25}NaO_4S
Synonyms: Dodecylsulfuric Acid Sodium Salt, Laurylsulfuric Acid Sodium Salt, SDS, Sodium Lauryl Sulfate

4. FIRST-AID MEASURES

Description of first aid measures
Inhalation: 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.
Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
Eye contact: 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.
Ingestion: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Symptoms/effects:
Acute: Redness.
Delayed: May have effects on the respiratory tract.

Indication of any immediate medical attention:
Not available.
Notes to physician:
No data available

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.
Specific hazards arising from the chemical: Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.
Hazardous combustion products: These products include: Carbon oxides Sulfur oxides Metallic oxides
Other specific hazards: Closed containers may explode from heat of a fire.
Advice for firefighters: Wear self-contained breathing apparatus if possible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc. Prevent product from entering drains.
Environmental precautions: Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
Methods and materials for containment and cleaning up:

7. HANDLING AND STORAGE

Precautions for safe handling: Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling.
Conditions for safe storage, including any incompatibilities
Storage conditions: Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store under inert gas. Protect from moisture. Store locked up.
Packaging material: Comply with laws.
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls: Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment
Respiratory protection: Dust respirator, self-contained breathing apparatus (SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
Hand protection: Impervious gloves.
Eye protection: Safety goggles. A face-shield, if the situation requires.
Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid
Form: Crystal - Powder
Colour: White - Pale yellow
Odour: Characteristic
Odour threshold: No data available

Melting point/freezing point: 207°C (405°F)
Boiling point/range: No data available
Decomposition temperature: No data available
Relative density: No data available
Kinematic viscosity: No data available
Log Pow: No data available

pH: No data available
Vapour pressure: No data available.
Vapour density: No data available
Dynamic Viscosity: No data available
Evaporation rate (Butyl Acetate=1): No data available

Flash point: No data available
Autoignition temperature: 248°C (478°F)
Flammability (solid, gas): No data available
Lower: No data available
Upper: No data available

Solubility (ies):
[Water] Soluble (10g/100mL)
[Other solvents] No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available
Chemical stability: Stable under proper conditions.
Possibility of hazardous reactions: No special reactivity has been reported.
Incompatible materials: Oxidizing agents
Hazardous decomposition products: Carbon dioxide, Carbon monoxide, Sulfur oxides
11. TOXICOLOGICAL INFORMATION

RTECS Number: WT1050000

Acute Toxicity:

ihl-rat LC50: >3900 mg/m³/1H  
orf-rat LD50: 1288 mg/kg  

ipr-rat LD50: 210 mg/kg  

Skin corrosion/irritation:

skn-rbt 250 mg/24H MOD

skn-hmn 0.1 %/24H MOD

Serious eye damage/irritation:

eye-rbt 100 mg/24H MOD

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

dni-hmn-lym 100 mg/L  

mmo-smc 3500 umol/L (-S9)

Carcinogenicity:

No data available

IARC:  No data available  

NTP:  No data available  

OSHA:  No data available

Reproductive toxicity:

skn-mus TDLo: 480 mg/kg (6-13D preg)

Target organ(s):

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure: Kidney

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish:  No data available

Crustacea:  No data available

Algae:  No data available

Persistence / degradability:  No data available

Bioaccumulative potential (BCF):  71

Mobility in soil:

Log Pow:  1.60

Soil adsorption (Koc):  1.0 x 10⁴

Henry’s Law (Pa m³/mol):  1.9 x 10²

13. DISPOSAL CONSIDERATIONS

Disposal of product:

Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.

Disposal of container:

Dispose of as unused product. Do not re-use empty containers.

Other considerations:

Observe all federal, state and local regulations when disposing of the substance.
14. TRANSPORT INFORMATION

DOT (US)

<table>
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<th>UN number:</th>
<th>Proper Shipping Name:</th>
<th>Class or Division:</th>
<th>Packing Group:</th>
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<tr>
<td>UN2811</td>
<td>Toxic solids, organic, n.o.s</td>
<td>6.1 Toxic material.</td>
<td>III</td>
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</tbody>
</table>

IATA

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IMDG

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</tr>
</tbody>
</table>

EmS number: F-A, S-A

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.): This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations
CERCLA Hazardous substance and Reportable Quantity:
- SARA 313: Not Listed
- SARA 302: Not Listed

State Regulations
State Right-to-Know
- Massachusetts: Not Listed
- New Jersey: Not Listed
- Pennsylvania: Not Listed
- California Proposition 65: Not Listed

Other Information

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<thead>
<tr>
<th>NFPA Rating</th>
<th>HMIS Classification</th>
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<tr>
<td>Health: 2</td>
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<tr>
<td>Flammability: 3</td>
<td>Flammability: 3</td>
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<tr>
<td>Instability: 3</td>
<td>Physical: 3</td>
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International Inventories

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<tr>
<th>Canada: DSL</th>
<th>EC-No: 205-788-1</th>
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16. OTHER INFORMATION

Revision date: 07/06/2018

Revision number: 

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.