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MATERIAL SAFETY DATA SHEET (MSDS)

SODIUM LAURYL SULPHATE AR

1. Product Identification

Synonyms: Sodium lauryl sulfate; Duponol; Dodecyl sodium sulfate;

CAS No.: 151-21-3

Product Coad: S0195300250

Molecular Weight: 288.38

Chemical Formula: C₁₂H₂₅OSO₃Na

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Sodium Lauryl Sulfate	151-21-3	90 - 100%	Yes

3. Hazards Identification

Emergency Overview WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. MAY CAUSE ALLERGIC SKIN OR RESPIRATORY REACTION. FLAMMABLE SOLID.

Inhalation: Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. May cause allergic reaction in sensitive individuals. **Ingestion:** Large doses may cause gastrointestinal distress, nausea and diarrhea. **Skin Contact:** Mildly irritating to skin, causes dryness and a rash on continued exposure. May cause allergic skin reactions. **Eye Contact:** Causes irritation, redness, and pain. **Chronic Exposure:** Chronic exposure may cause skin effects.

Aggravation of Pre-existing Conditions: Persons with pre-existing skin disorders or impaired respiratory function may be more susceptible to the effects of the substance.

4. First Aid Measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **Ingestion:** Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention. **Skin Contact:** Immediately flush skin with plenty of soap and water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. **Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Fire: Flammable Solid! Classified as a flammable solid according to DOT test methods.

Explosion: Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. **Fire**

Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide. **Special Information:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits: None established.

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details. **Personal Respirators (NIOSH Approved):** For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn.

For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

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Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. **Eye Protection:** Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: Fine, white or slightly yellow powder. **Odor:** Slight fatty odor. **Solubility:** 10g/100g water.
Specific Gravity: 0.4 @ 15C/4C **pH:** No information found. **% Volatiles by volume @ 21C (70F):** 0 **Boiling Point:**

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products: Oxides of carbon, sulfur and sodium oxide may form when heated to decomposition. **Hazardous Polymerization:** Will not occur. **Incompatibilities:** Strong oxidizers, acids. **Conditions to Avoid:** Heat, flames, ignition sources and incompatibles.

11. Toxicological Information

Toxicological Data: Oral rat LD50: 1288 mg/kg; Inhalation rat LC50: > 3900 mg/kg; irritation data: skin human, standard Draize, 25 mg/24-hour, mild; eye rabbit, standard Draize, 250 ug, mild. Investigated as a mutagen, reproductive effector.

Reproductive Toxicity: Has caused mutagenic and teratogenic effects on laboratory animals.

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
Sodium Dodecyl Sulfate (151-21-3)	No	No	None

12. Ecological Information

Environmental Fate: No information found.
Environmental Toxicity: 96 Hr LC50 fathead minnow (fry): 10.2 mg/L; 96 Hr LC50 fathead minnow (juvenile): 17 mg/L; 96 Hr LC50 fathead minnow (adult): 22.5 mg/L; 96 Hr LC50 rainbow trout: 4.6 mg/L (Static).

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

International (Water, I.M.O.)
Proper Shipping Name: FLAMMABLE SOLIDS, ORGANIC, N.O.S. (SODIUM LAUREL SULFATE)
Hazard Class: 4.1 **UN/NA:** UN1325 Packing Group: III

15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----

Ingredient	TSCA	EC	Japan	Australia
Sodium Dodecyl Sulfate (151-21-3)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----

--Canada--

Ingredient	Korea	DSL	NDSL	Phil.
Sodium Dodecyl Sulfate (151-21-3)	Yes	Yes	No	Yes

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-----Federal, State & International Regulations - Part 1-----

-SARA 302- -----SARA 313-----

Ingredient	RQ	TPQ	List	Chemical Catg.
Sodium Dodecyl Sulfate (151-21-3)	No	No	No	No

-----Federal, State & International Regulations - Part 2-----

-RCRA- -TSCA-

Ingredient	CERCLA	261.33	8(d)
Sodium Dodecyl Sulfate (151-21-3)	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No

SARA 311/312: Acute: Yes Chronic: Yes Fire: Yes Pressure: No

Reactivity: No (Pure / Solid)

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 1 Flammability: 2 Reactivity: 0

Label Hazard Warning: WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. MAY CAUSE ALLERGIC SKIN OR RESPIRATORY REACTION. FLAMMABLE SOLID.

Label Precautions: Do not breathe dust.

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

Use only with adequate ventilation.

Keep container closed.

Keep away from heat, sparks and flame.

Label First Aid: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of skin contact, immediately flush skin with plenty of soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. If swallowed, give large amounts of water to drink. Never give anything by mouth to an unconscious person. In all cases, get medical attention.

Product Use: Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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