



## SAFETY DATA SHEET

### SECTION 01 - IDENTIFICATION

|  |  |
|--|--|
| <b>Product Identifier</b>  | SODIUM DODECYLSULFATE SOLN 5% W/V  |
| <b>Other identification (Chemical name, Commercial name, Synonymous)</b> | SULFATE DE DODÉCYLE ET DE SODIUM; SODIUM LAURYL SULFATE; SODIUM DOCECYL SULFATE; DODECYL SULFATE SODIUM SALT; SULFURIC ACID MONODODECYL ESTER SODIUM SALT; DÉTERGENT 66; IRIUM |
| <b>Product code</b>  | SS-0977  |
| <b>Chemical formula</b>  | $C_{12}H_{25}O_4S \cdot Na$  |
| <b>Molar weight</b>  | 288.38   |
| <b>Recommended use and Restrictions on use</b>                           | For laboratory, school, commercial or industrial use. Not for medical or household use. Do not use for medical, food or household purposes.                                    |
| <b>Supplier</b>  | LABORATOIRE MAT<br>610, rue Adanac<br>Québec<br>Québec<br>G1C 7B7<br>418-660-8666 Mon-Fri 8h-16h<br>www.labmat.com<br>labmat@labmat.com  |
| <b>Emergency phone</b>   | 418-660-8666 Mon-Fri 8h-16h<br>CENTRE ANTI-POISON DU QUÉBEC 800-463-5060   |
| <b>Date SDS</b>  | 2025-06-13   |

## SECTION 02 - HAZARDS IDENTIFICATION

### WHIMS CANADA

- Skin corrosion/irritation - Skin irritation - category 2
- Serious eye damage/eye irritation - Eye irritation - category 1

### PICTOGRAMS



### Signal Word

DANGER

### Hazards statements (H)

- Causes skin irritation
- Causes serious eye damage

### Precautionary statements (P)

- IF ON SKIN: Wash with plenty of water
- If skin irritation occurs: Get medical attention.
- Wear protective gloves (nitrile, butyl, neoprene), protective clothing and eye and face protection.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER or a physician.

### Other dangers

NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Significant; 4=Extreme)

**Health** 1  
**Fire** 0  
**Reactivity** 1  
**Special danger**

## SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

| Component              | No. CAS  | % Weight |
|------------------------|----------|----------|
| Sodium dodecyl sulfate | 151-21-3 | 5%       |

## SECTION 04 - FIRST AID MEASURE

### Eye contact

Wash eyes with large amounts of water for at least 15 minutes while holding eyelids apart to rinse eyes. If irritation persists, seek medical attention.

### Skin contact

Wash skin with plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation persists, seek medical attention.

### Inhalation

Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.

### Ingestion

If the person is conscious, give water to drink. Never give anything by mouth to an unconscious person. Consult a physician.

### Most important symptoms and effects (acute and delayed)

When concentrated, high exposure to the product causes the following main symptoms: Skin, eye and respiratory system irritation. Cough. Dyspnoea. Gastrointestinal disorders. Headaches. Dizziness. Nausea and vomiting. Fatigue. Chest pain. Respiratory sensitizer. Confusion. Irritability. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated. Ref. section 11.

### Immediate medical attention and special treatment, if necessary

Treat according to symptoms. Show this sheet to the attending physician.

## SECTION 05 - FIREFIGHTING MEASURES

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>                                  | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  |
| <b>Unsuitable extinguishing media</b>                                | Data not available.   |
| <b>Combustion products</b>   | Hazardous combustion products formed under fire conditions: Sulfur oxides. Carbon oxides. Sodium oxides.  |
| <b>Specific hazards of the dangerous product</b>                     | When concentrated, the product reacts according to the following characteristics: May react violently with incompatible products (Ref Section 10).  |
| <b>Special protective equipment and precautions for firefighters</b> | Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus. |

## SECTION 06 - ACCIDENTAL RELEASE MEASURES

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency measures</b> | Evacuate personnel to safe areas. When handling, wear appropriate safety equipment (reference Section 8 for protective equipment to be used). Ensure a good ventilation. Use NIOSH cartridge respiratory protection if necessary or for larger spills. |
| <b>Methods and materials for containment and cleaning up</b>             | Absorb the product with sand or vermiculite. Dilute residues with water, clean and rinse. Dispose of residues in a container for disposal of hazardous materials. Discharge into the environment must be avoided.                                      |

## SECTION 07 - HANDLING AND STORAGE

|                                    |   |
|------------------------------------|---|
| <b>Conditions for safe storage</b> | Store in a cool and dry place. Keep container tightly closed and store away from heat, water, moisture, and incompatible products (ref. section 10).  |
| <b>Methods of handling</b>         | Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation. Wear personal protective equipment (ref. section 8) when handling. Always ensure good ventilation. Apply the usual standard hygiene rules: Wash your hands after use. Do not eat or drink during use. |

## SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### WORKPLACE CONTROL PARAMETERS

| Component              | CAS-No.  | Value   |
|------------------------|----------|---|
| Sodium dodecyl sulfate | 151-21-3 | No occupational exposure limits established by region-specific regulators - Quebec, Alberta, Ontario, British Columbia. |

#### Respiratory

If work under the hood is not possible, or if the permissible levels are exceeded, use NIOSH cartridge respiratory protection, or an air-supplied respirator.

#### Gloves

Handle with protective gloves. Suggested material: Nitrile. Butyl. Neoprene. The type, thickness and length of the glove must be chosen according to the use, the concentration of the product, as well as the duration of use. Replace gloves regularly for better protection.

#### Eyes

Safety goggles with safety shutters.

#### Shoes

Use safety shoes.

#### Clothes

Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Engineering control

Use fan. Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values.

## SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

|  |                               |
|--|-------------------------------|
| <b>Physical state</b>                        | Liquid                        |
| <b>Color</b>                                 | Colorless                     |
| <b>Odour</b>                                 | Data not available            |
| <b>Odour threshold</b>                       | Data not available            |
| <b>Melting point and freezing point</b>      | Data not available            |
| <b>Boiling point</b>                         | Data not available            |
| <b>Flammability</b>                          | No                            |
| <b>Lower flammable / Explosive limit</b>     | Data not available            |
| <b>Upper flammable / Explosive limit</b>     | Data not available            |
| <b>Flash point</b>                           | Data not available            |
| <b>Auto-ignition temperature</b>             | Data not available            |
| <b>Decomposition temperature</b>             | Data not available            |
| <b>pH</b>                                    | Data not available            |
| <b>Kinematic viscosity</b>                   | Data not available            |
| <b>Solubility</b>                            | Soluble in water              |
| <b>Partition coefficient water/n-octanol</b> | Data not available            |
| <b>Vapour pressure</b>                       | Data not available            |
| <b>Relative density</b>                      | 1.05g/ml @ 20°C (Theoretical) |
| <b>Vapour density</b>                        | Data not available            |
| <b>Particle characteristics</b>              | Not applicable                |

## SECTION 10 - STABILITY AND REACTIVITY

|   |   |
|---|---|
| <b>Reactivity</b>                         | May react violently with incompatible substances.                                     |
| <b>Chemical stability</b>                 | Stable under recommended storage conditions.  |
| <b>Possibility of hazardous reactions</b> | May react violently with incompatible substances.                                     |
| <b>Conditions to avoid</b>                | Avoid contact with incompatible materials and extreme temperatures.                   |
| <b>Incompatible materials</b>             | When pure, the product reacts with the following products: Oxydants.                  |
| <b>Hazardous decomposition products</b>   | Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ). Sulfur oxides. Sodium oxide. |

## SECTION 11 - TOXICOLOGICAL INFORMATION

### SODIUM DODECYLSULFATE SOLN 5% W/V

|  |   |
|--|---|
| <b>Routes of exposure</b>                        | Ingestion, inhalation, skin and eye contact.  |
| <b>Acute exposition effects / symptoms:</b>      | By exposure route below.  |
| - Eyes   | Causes serious eye damage.  |
| - Skin   | Irritation. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated. |
| - Inhalation                                     | May irritate the respiratory system.  |
| <b>Acute toxicity (Ingestion)</b>                | May cause: To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.  |
| <b>DL50 (specify species and route of entry)</b> | LD50 Oral - Rat - >5000mg/kg. LD50 Dermal - Rat - >5000mg/kg.   |
| <b>CL50 (specify species and route of entry)</b> | LC50 Inhalation - Data not available.   |

### SODIUM DODECYLSULFATE

|  |  |
|--|--|
| <b>Routes of exposure</b>                        | Ingestion, inhalation, skin and eye contact.   |
| <b>Acute exposition effects / symptoms:</b>      | By exposure route below.   |
| - Eyes   | Irritation. May cause: Inflammation of the conjunctiva.  |
| - Skin   | May cause skin irritation.   |
| - Inhalation                                     | Nervous disorders. Chest pain. Respiratory allergy, Cough. Dyspnoea. Sneezing. Headaches. Dizziness. Watery eyes. Nausea and vomiting. Irritation of the mucous membranes and respiratory tract.   |
| <b>Acute toxicity (Ingestion)</b>                | May cause: Mucous membrane irritation. Mouth irritation. Irritation of the esophagus and digestive tract.  |
| <b>Chronic exposure effects / symptoms</b>       | Burning sensation. Dermatitis. Conjunctivitis. Nervous disorders. Lung damage. Chest pain. Cough. Dyspnoea. Laryngitis. Headache. Dizziness. Confusion. Irritability. Tearing. Fatigue. Loss of appetite. Weight loss. Nausea and vomiting. Respiratory allergy. |
| <b>DL50 (specify species and route of entry)</b> | LD50 Oral - Rat - 977mg/kg. LD50 Dermal - Rat - >2000mg/kg.  |
| <b>CL50 (specify species and route of entry)</b> | LC50 Inhalation - Data not available.  |

## SECTION 12 - ECOLOGICAL INFORMATION

### SODIUM DODECYLSULFATE SOLN 5% W/V

|                                      |  |
|--------------------------------------|--|
| <b>Ecotoxicity</b>                   | Data not available.  |
| <b>Persistence and degradability</b> | Data not available.  |
| <b>Bioaccumulative potential</b>     | Data not available.  |
| <b>Mobility in soil</b>              | Probable mobility in the environment due to its solubility in water. |
| <b>Other adverse effects</b>         | Data not available.  |

### SODIUM DODECYLSULFATE

|                                      |  |
|--------------------------------------|--|
| <b>Ecotoxicity</b>                   | Toxicity to fish: Flow-through test - LC50 - Pimephales promelas (Bighead Minnow) - 29 mg/l - 96 h. Toxicity to daphnia and other aquatic invertebrates: LC50 - Daphnia magna (Water flea) - 5.55 mg/l - 48 h. NOEC - 0.684 mg/l - 7 d. Toxicity to algae: Growth inhibition LOEC - Pseudokirchneriella subcapitata - 2.68 mg/l - 6 d. Static test EC50 - Desmodesmus subspicatus (Scenedesmus subspicatus) - > 120 mg/l - 72 h. |
| <b>Persistence and degradability</b> | Duration of exposure 28 days - Result: 95% Readily biodegradable Biodegradability aerobic -  |
| <b>Bioaccumulative potential</b>     | Bioaccumulation Cyprinus carpio (Carp) - 72 h. Bioconcentration factor (BCF): 3.9 - 5.3.   |
| <b>Mobility in soil</b>              | Data not available.  |
| <b>Other adverse effects</b>         | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  |

## SECTION 13 - DISPOSAL CONSIDERATIONS

|                               |  |
|-------------------------------|--|
| <b>Waste Disposal Method</b>  | Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company. |
| <b>Contaminated Packaging</b> | Dispose of as unused product.  |

## SECTION 14 - TRANSPORT INFORMATION

|                                   |     |
|-----------------------------------|-----|
| <b>UN Number</b>                  | N/R |
| <b>UN Proper shipping name</b>    |     |
| <b>Transport hazard class(es)</b> |     |
| <b>Packing group</b>              |     |
| <b>Limited quantity index</b>     |     |
| <b>ERAP Index</b>                 |     |
| <b>Special precautions</b>        |     |

## SECTION 15 - REGULATORY INFORMATION

### WHIMS CANADA

- Skin corrosion/irritation - Skin irritation - category 2
- Serious eye damage/eye irritation - Eye irritation - category 1

## SECTION 16 - OTHER INFORMATION

CNESST: Commission des normes, de l'équité et de la santé et sécurité au travail

NIH: National institute of health (U.S. National Library of Medicine)

ECHA: Agence Européenne de Chimie

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

VECD: Valeur d'exposition courte durée

VEMP: Valeur d'exposition moyenne pondérée

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TLV : Threshold limit value

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

RSST: Règlement sur la santé et sécurité au travail (Québec)

INRS: l'Institut national de recherche et de sécurité pour la prévention des accidents du travail et des maladies professionnelles (France)

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

**LAST UPDATE: 2025-06-13**