



SAFETY DATA SHEET

SECTION 01 - IDENTIFICATION

Product Identifier	SODIUM DODECYLSULFATE
Other identification (Chemical name, Commercial name, Synonymous)	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
Product code	SP-0165; SR-0977
Chemical formula	$C_{12}H_{25}O_4S \cdot Na$
Molar weight	288.38
Recommended use and Restrictions on use	For laboratory, school, commercial or industrial use. Not for medical or household use. Do not use for medical, food or household purposes.
Supplier	LABORATOIRE MAT 610, rue Adanac Québec Québec G1C 7B7 418-660-8666 Mon-Fri 8h-16h www.labmat.com labmat@labmat.com
Emergency phone	418-660-8666 Mon-Fri 8h-16h CENTRE ANTI-POISON DU QUÉBEC 800-463-5060
Date SDS	2025-06-13

SECTION 02 - HAZARDS IDENTIFICATION

WHIMS CANADA

- Flammable solids - category 2
- Skin corrosion/irritation - Skin irritation - category 2
- Serious eye damage/eye irritation - Eye irritation - category 2
- Acute toxicity - Dermal - category 3
- Acute toxicity - Oral - category 4
- Specific target organ toxicity - Single exposure - category 3

PICTOGRAMS



Signal Word

DANGER

Hazards statements (H)

- Flammable solid
- Causes skin irritation
- Causes serious eye irritation
- Toxic in contact with skin
- Harmful if swallowed
- May cause respiratory irritation

Precautionary statements (P)

- Keep away from heat, sparks, open flames, hot surfaces. — No smoking.
- Ground and bond container and receiving equipment.
- Use explosion-proof equipment.
- Wear protective gloves (nitrile, butyle, neoprene), protective clothing and eye and face protection.
- In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
- IF ON SKIN: Wash with plenty of water
- If skin irritation occurs: Get medical attention.
- 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 attention.
- Call a POISON CENTER or a doctor or if you feel unwell.
- Take off immediately all contaminated clothing and wash it before reuse.
- Store locked up.
- Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company.
- Do not eat, drink or smoke when using this product.
- IF SWALLOWED: Call a POISON CENTER or a physician if you feel unwell.
- Rinse mouth.
- Avoid breathing mists, gases, vapors and other fumes, or the product itself.
- Use only outdoors or in a well-ventilated area.
- IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- Store in a well ventilated place. Keep container tightly closed.

Other dangers

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

Health 2
Fire 2
Reactivity 2
Special danger

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	No. CAS	% Weight
Sodium dodecyl sulfate	151-21-3	<=100%

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)	Main symptoms of high exposure: Skin, eye and respiratory system irritation. Cough. Dyspnoea. Gastrointestinal disorders. Headaches. Dizziness. Nausea and vomiting. Fatigue. Chest pain. Respiratory sensitizer. Confusion. Irritability. 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

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	Data not available.
Combustion products	Hazardous combustion products formed under fire conditions: Sulfur oxides. Carbon oxides. Sodium oxides.
Specific hazards of the dangerous product	May form combustible dust concentrations in the air. May react violently with incompatible products (Ref Section 10).
Special protective equipment and precautions for firefighters	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

Personal precautions, protective equipment and emergency measures	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. Cut off all sources of ignition. Avoid dust formation. Avoid breathing dust.
Methods and materials for containment and cleaning up	Pick up with a shovel or broom, taking care not to scatter dust. Dilute residues with water, clean and rinse. Dispose of residues in a container for disposal of hazardous materials. When handling, wear suitable safety equipment. Discharge into the environment must be avoided.

SECTION 07 - HANDLING AND STORAGE

- Conditions for safe storage** Hygroscopique Store in a cool and dry place. Keep container tightly closed and store away from heat, water, moisture, and incompatible products (ref. section 10).
- Methods of handling** 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

Physical state	Solid
Color	White
Odour	Odorless
Odour threshold	Data not available
Melting point and freezing point	204-207°C
Boiling point	Data not available
Flammability	Yes
Lower flammable / Explosive limit	Data not available
Upper flammable / Explosive limit	Data not available
Flash point	Data not available
Auto-ignition temperature	250°C
Decomposition temperature	Data not available
pH	9 à 10 g/L
Kinematic viscosity	Not applicable
Solubility	Soluble in water (10%)
Partition coefficient water/n-octanol	log pow : 0.83 @ 22°C
Vapour pressure	0.0018 hPa (0.0014 mmHg)
Relative density	0.370
Vapour density	Data not available
Particle characteristics	Cristals or powder

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	May react violently with incompatible substances.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	May react violently with incompatible substances.
Conditions to avoid	Avoid moisture. Avoid contact with incompatible materials and extreme temperatures. Avoid dust formation. Heat, flames and sparks.
Incompatible materials	Oxydants.
Hazardous decomposition products	Carbon monoxide (CO), Carbon dioxide (CO ₂). Sulfur oxides. Sodium oxide.

SECTION 11 - TOXICOLOGICAL INFORMATION

SODIUM DODECYLSULFATE

Routes of exposure	Ingestion, inhalation, skin and eye contact.
Acute exposition effects / symptoms:	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.
Acute toxicity (Ingestion)	May cause: Mucous membrane irritation. Mouth irritation. Irritation of the esophagus and digestive tract.
Chronic exposure effects / symptoms	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.
DL50 (specify species and route of entry)	LD50 Oral - Rat - 977mg/kg. LD50 Dermal - Rat - >2000mg/kg.
CL50 (specify species and route of entry)	LC50 Inhalation - Data not available.

SECTION 12 - ECOLOGICAL INFORMATION

SODIUM DODECYLSULFATE

Ecotoxicity	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.
Persistence and degradability	Duration of exposure 28 days - Result: 95% Readily biodegradable Biodegradability aerobic -
Bioaccumulative potential	Bioaccumulation Cyprinus carpio (Carp) - 72 h. Bioconcentration factor (BCF): 3.9 - 5.3.
Mobility in soil	Data not available.
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13 - DISPOSAL CONSIDERATIONS

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

SECTION 14 - TRANSPORT INFORMATION

UN Number	1325
UN Proper shipping name	SOLIDE ORGANIQUE INFLAMMABLE, N.S.A (Sodium dodecyl sulphate)
Transport hazard class(es)	Solides inflammables 4.1
Packing group	III
Limited quantity index	5 kg
ERAP Index	-
Special precautions	16

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	<ul style="list-style-type: none">- Flammable solids - category 2- Skin corrosion/irritation - Skin irritation - category 2- Serious eye damage/eye irritation - Eye irritation - category 2- Acute toxicity - Dermal - category 3- Acute toxicity - Oral - category 4- Specific target organ toxicity - Single exposure - category 3
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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.

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