

Material Safety Data Sheets

Revision 2

1. IDENTIFICATION

Product Name	Sodium Lauryl Sulphate
Other Names	Dodecyl Hydrogen Sulfate; Dodecyl sodium sulphate; Lauryl Sodium Sulfate; Sodium Dodecyl Sulfate; Sodium Lauryl Sulfate; SULPHURIC ACID, MONODODECYL ESTER, SODIUM SALT
Code No	200-SLS-2
Uses	No Data Available
Chemical Family	No Data Available
Chemical Formula	$C_{12}H_{25}O_4S.Na$
Chemical Name	Sodium Lauryl Sulphate
Product Description	No Data Available
Company	Arman sina.co
Contact Information	info@armansina.com www.armansina.com

2. HAZARD IDENTIFICATION

Hazard Categories	Corrosive irritation
Risk Phrases	Harmful if swallowed. Irritating to skin. Risk of serious eye damage. Toxic to aquatic organisms; may cause long term adverse effects in the aquatic environment.
Safety Phrases	Do not breathe dust. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye/face protection.

Symbol



3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Sodium Lauryl Sulphate	$C_{12}H_{25}O_4S.Na$	151-21-3	100.0 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	Rinse mouth with water. Give water to drink. Do NOT induce vomiting. If vomiting occurs, lean patient forward to prevent aspiration into the lungs. Seek medical attention.
Eye	Immediately flush eyes with plenty of water for 15 minutes, holding eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention. Immediately flush eyes with plenty of water for 15 minutes, holding eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention.
Skin	Remove contaminated clothing. Wash affected area with plenty of soap and water for at least 15 minutes. Seek immediate medical attention. Wash clothing before reuse.
Inhaled	Remove victim from exposure to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of patient.
Medical Conditions Aggravated by Exposure	No information available on medical conditions which are aggravated from exposure to this product. However, harmful if swallowed.

5. FIRE FIGHTING MEASURES

General Measures	If safe to do so, move undamaged containers from fire area. Dam fire control water for later disposal. Avoid generating dust.
Flammability Conditions	Product is a non-flammable solid.
Extinguishing Media	In case of fire, appropriate extinguishing media include powder, water spray.
Fire and Explosion Hazard	This material may cause risk of dust explosion.
Hazardous Products of Combustion	This product may produce toxic gas when heated above decomposition. Risk of producing harmful gases such as carbon monoxide and sulfur oxides. Avoid inhalation of smoke or gases.
Special Fire Fighting Instructions	Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk. Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.
Personal Protective Equipment	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves) or chemical splash suit.
Flash Point	No Data Available
Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Auto Ignition Temperature	No Data Available
Hazchem Code	No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Stop leak if safe to do so. Isolate the danger area. Use clean, non-sparking tools and equipment. Do NOT touch damaged containers or spilled material unless wearing appropriate protective clothing as listed in section 8. Risk of slipping. Spilled material forms slippery floor.
Clean Up Procedures	Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner (dust-explosion-proof type). Transfer to a suitable, labelled container and dispose of promptly as hazardous waste.
Containment	Stop leak if safe to do so.
Environmental Precautionary Measures	Do not allow product to reach drains, sewers or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Authority.
Evacuation Criteria	Evacuate all unnecessary personnel.

7. HANDLING AND STORAGE

Handling	Observe good personal hygiene practices and recommended procedures. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Avoid contact with eyes and skin. Avoid inhalation of fine dust. Use an adequate ventilation. Wash thoroughly after handling. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. This material may cause risk of dust explosion. Take precautionary measures against static discharges by bonding and grounding equipment. Remove contaminated clothing and wash before reuse.
Storage	Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.
Container	Container type/packaging must comply with all applicable local legislation. Store in original packaging as approved by manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	<p>No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC). However, the exposure standard for dust not otherwise specified is 10mg/m³ (for inspirable dust) and 3mg/m³ (for respirable dust).</p> <p>NOTE: The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.</p> <p>These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.</p>
Exposure Limits	No Data Available
Biological Limits	No information available on biological limit values for this product.
Engineering Measures	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.
Personal Protection Equipment	<p>RESPIRATOR: Wear an effective dust mask where dusts/vapours are generated and engineering controls are inadequate (AS1715/1716).</p> <p>EYES: Safety glasses with side shield (Safety goggles or Face shield) (AS1336/1337).</p> <p>HANDS: Wear rubber gloves (AS2161).</p> <p>CLOTHING: Long-sleeved protective clothing (full-body suit) and safety footwear (AS3765/2210).</p>
Work Hygienic Practices	No Data Available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Crystalline or powder / Needles / Granules
Odour	Slightly Characteristic Odour
Colour	White to light yellow
pH	7 1% Solution
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling Point	No Data Available
Melting Point	204-207°C
Freezing Point	No Data Available
Solubility	No Data Available
Specific Gravity	No Data Available
Flash Point	No Data Available
Auto Ignition Temp	No Data Available
Evaporation Rate	No Data Available
Bulk Density	No Data Available
Corrosion Rate	No Data Available

Decomposition Temperature	No Data Available
Density	0.54 g/mL
Specific Heat	No Data Available
Molecular Weight	No Data Available
Net Propellant Weight	No Data Available
Octanol Water Coefficient	No Data Available
Particle Size	No Data Available
Partition Coefficient	No Data Available
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	No Data Available
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	SOLVENT SOLUBILITY: Insoluble in isopropanol, xylene and ethyleneglycol.
Potential for Dust Explosion	This product may cause a risk of dust explosion.
Fast or Intensely Burning Characteristics	No Data Available
Flame Propagation or Burning Rate of Solid Materials	No Data Available
Non-Flammables That Could Contribute Unusual Hazards to a Fire	No Data Available
Properties That May Initiate or Contribute to Fire Intensity	No Data Available
Reactions That Release Gases or Vapours	No Data Available
Release of Invisible Flammable Vapours and Gases	No Data Available

10. STABILITY AND REACTIVITY

Chemical Stability	Product is stable under normal conditions of use, storage and temperature.
Conditions to Avoid	Avoid generating dust. This material may cause risk of dust explosion.
Materials to Avoid	No Data Available
Hazardous Decomposition Products	This products may produce toxic gas when heated above decomposition. When involved in a fire, this product may produce toxic gases such as carbon monoxide and sulphur oxides. Avoid inhalation of smoke or gases.
Hazardous Polymerisation	No Data Available

11. TOXICOLOGICAL INFORMATION

General Information	<p>Oral LD50 Rat: 977mg/Kg bw (6.1D - EPA) LD50 Rat: 1200 mg/kg (Data on sodium dodecyl sulfate)(8) Guinea pig, LD50>1200 mg/kg (Data on sodium dodecyl sulfate)(8) Dermal LD50 Rabbit: 580 mg/kg bw (6.1C - EPA)</p> <p>SKIN CORROSION / IRRITATION: Rabbit, 4 hour patch test, 25%: Strong erythema and edema (Data on sodium dodecyl sulfate)(48)</p> <p>SERIOUS EYE DAMAGE / IRRITATION: Rabbit, Draize test, 20%: Strongly irritating (Data on sodium dodecyl sulfate)(48)</p> <p>SKIN SENSITIZATION: Guinea pig, Buehler Test: Negative (Data on sodium dodecyl sulfate)(48)</p> <p>MUTAGENICITY (GERM CELL MUTAGENICITY): Ames test (TA98, TA100, WP2try-): Negative Rec-assay (H17, M45): Negative.</p> <p>CARCINOGENICITY: AS (Alcohol Sulphates) are not carcinogenic (48)</p>
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Eyelrritant	Risk of serious damage to eyes.
Ingestion	Harmful if swallowed.
SkinIrritant	Irritating to skin.
Carcinogen Category	No Data Available

12. ECOLOGICAL INFORMATION

Ecotoxicity	Data on sodium dodecyl sulphate(3): Brachydanio rerio, 96h LC50: 7.97 mg/L Daphnia magna, 48h EC50: 4.6 mg/L Scenedesmus subspicatus, 72h EC50: 53 mg/L
Persistence/Degradability	OECD301: Readily biodegradable (8) BOD5: 1.3 g/g (JIS K0102) (Data on similar product) COD(Cr): 1.7 g/g (JIS K0102) (Data on similar product)
Mobility	No information available on mobility for this product.
Environmental Fate	Do NOT let product reach waterways, drains and sewers.
Bioaccumulation Potential	No information available on bioaccumulation for this product.
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	Dispose of in accordance with all local regulations. All empty packaging should be disposed of in accordance with Local Regulations or recycled/reconditioned at an approved facility.
Special Precautions for Land Fill	Contact a specialist disposal company or the local waste regulator for advice.

14. TRANSPORT INFORMATION

Land Transport

Proper Shipping Name	Dodecyl sodium sulphate
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available

Sea Transport

IMDG Code

Proper Shipping Name	Dodecyl sodium sulphate
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
EMS	No Data Available
Marine Pollutant	No

Air Transport
IATA

Proper Shipping Name	Dodecyl sodium sulphate
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available

15. OTHER INFORMATION

Revision	2
Key/Legend	< Less Than > Greater Than atm Atmosphere CAS Chemical Abstracts Service (Registry Number) cm Square Centimetres CO2 Carbon Dioxide COD Chemical Oxygen Demand Degrees Celsius Degrees Fahrenheit g Grams g/cm Grams per Cubic Centimetre g/l Grams per Litre HSNO Hazardous Substance and New Organism IDLH Immediately Dangerous to Life and Health immiscible Liquids are insoluble in each other. inHg Inch of Mercury inH2O Inch of Water K Kelvin kg Kilogram kg/m Kilograms per Cubic Metre lb Pound LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours. LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals. ltr or L Litre m Cubic Metre mbar Millibar mg Milligram mg/24H Milligrams per 24 Hours mg/kg Milligrams per Kilogram mg/m Milligrams per Cubic Metre Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present. mm Millimetre mmH2O Millimetres of Water mPa.s Millipascals per Second N/A Not Applicable NIOSH National Institute for Occupational Safety and Health NOHSC National Occupational Health and Safety Commission OECD Organisation for Economic Co-operation and Development Oz Ounce PEL Permissible Exposure Limit Pa Pascal ppb Parts per Billion ppm Parts per Million ppm/2h Parts per Million per 2 Hours ppm/6h Parts per Million per 6 Hours psi Pounds per Square Inch R Rankine RCP Reciprocal Calculation Procedure STEL Short Term Exposure Limit TLV Threshold Limit Value tne Tonne TWA Time Weighted Average ug/24H Micrograms per 24 Hours UN United Nations wt Weight