



Safety Data Sheet

According to Regulation (EC) no. 1907/2006

Product Name
DODECYL SULFATE SODIUM SALT

1.0 Chemical product and company identification

1.1 Product Identifier

MSDS Name: DODECYL SULFATE SODIUM SALT
 Substance name: SODIUM LAURYL SULFATE; SDS; DODECYL SODIUM SULFATE
 CAS No: 151-21-3
 PRODUCT CODE: SDS

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance / Mixture: Laboratory Chemicals

Recommended restrictions on use: No Information Available

1.3 Details of the supplier of the safety data sheet

Company Identification:
 SOLUMETRICS LTD,
 UNIT 1B SILEBY ROAD INDUSTRIAL ESTATE. BARROW ON SOAR, LEIC'S. LE12 8LP.
 For information call. +44 (0)1509 815348
 For emergencies call. +44 (0)1509 815348

2.0 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) no 1272/2008

ACUTE ORAL TOXICITY	CATEGORY 4
ACUTE DERMAL TOXICITY	CATEGORY 4
ACUTE INHALATION TOXICITY - DUSTS AND MISTS	CATEGORY 4
SKIN CORROSION / IRRITATION	CATEGORY 2
SERIOUS EYE DAMAGE/ EYE IRRITATION	CATEGORY 2A
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)	CATEGORY 3
FLAMMABLE SOLIDS	CATEGORY 2

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Symbols Xn - Harmful
F - Highly Flammable

R - Phrases R11 - Highly Flammable

Risk Combination Phrases R36/37/38 - Irritating to eyes, respiratory system and skin
R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed

HAZARDS SYMBOLS



Signal Word: Warning

Hazard Statements: At this time we do not yet have information of identified uses. They will be included in the safety data sheets when available

Hazard Statements:
 H312 HARMFUL IN CONTACT WITH SKIN
 H335 MAY CAUSE RESPIRATORY IRRITATION
 H315 CAUSES SKIN IRRITATION
 H319 CAUSES SERIOUS EYE IRRITATION
 H302 HARMFUL IF SWALLOWED
 H332 HARMFUL IF INHALED
 H228 FLAMMABLE SOLID

Precautionary statements EU (28,1272/2008)

P305 + P351 + P338 If in EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do continue rinsing

P280	Wear protective gloves/protection clothing eye protection/face protection
P302 + P352	If on SKIN: Wash with plenty of soap and water
P261	Avoid breathing dust/fumes/gas/mist/vapors/spray
P301 + P312	If SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell
P304 + P340	If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P233	Keep container tightly closed
P210	Keep away from heat/ spark/ open flames/ hot surfaces - No Smoking

Hazardous components which must be listed on the label: At this time we do not yet have information of identified uses. They will be included in the safety data sheets when available

3.0 Composition/ Information on ingredients

3.1 Substances

EC No	Component	GHSCLAS	Classification
EEC No. 205-788-1	Sodium lauryl Sulfate 151-21-3	STOT SE3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Flam.sol.2 (H228) Acute Tox.4 (H332)	F;R11 Xn:R20/21/22 Xi:R36/37/38

Weight %	CAS No
85	151-21-3

Chemical Nature:

LITHIUM LAURYL SULFATE; DODECYL LITHIUM SULFATE CAS 151-21-3

4.0 First Aid measures

4.1 Description of first aid measures

General Advice

If Inhaled: Remove person to fresh air immediately. If not breathing give artificial respiration. If breathing is difficult give oxygen. Get medical attention.

In Case of Skin contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes Obtain medical attention

In case of eye contact: Immediately flush with copious amounts of water for at least 15 minutes occasionally lifting the upper and lower eyelids. Get medical attention as soon as possible.

If Swallowed: Clean mouth with water Get medical attention If swallowed DO NOT induce vomiting unless directed by to do so by medical personnel. DO NOT give anything by mouth to an unconscious person. Get medical assistance.

Notes to Physician Treat symptomatically

5.0 FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing Media: Water spray Carbon Dioxide (CO2) Dry chemical foam

Un-Suitable extinguishing Media: No information Available

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting: Flammable Combustible Material

5.3 Advice for fire-fighters

Special protective equipment for fire-fighters: Wear a self-contained breathing apparatus in pressure demand, MSHA/NIOS (approved or equivalent) full protective clothing and equipment.

Further Information: Wear a self-contained breathing apparatus in pressure demand, MSHA/NIOSH (approved or equivalent), and full protective equipment. During a fire irritating and highly toxic gasses may be generated by thermal decomposition or combustion. Dust from this product can form explosive organic dust cloud.

6.0 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation Use personal protective equipment Avoid dust formation

6.2 Environmental precautions:

Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal. Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities responsible for such cases

6.3 Methods and materials for containment and cleaning up:

Sweep or vacuum up material and place in a suitable container for disposal. Clean up spills immediately observing the precautions in the Protective equipment section. Provide adequate ventilation and avoid generating dusty conditions.

Further Information:

Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetaion.

7.0 Handling and storage

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimise dust generation and accumulation. Avoid contact with eyes, skin and clothing. Keep container(s) tightly closed. Avoid ingestion and inhalation.

7.1 Precautions for safe handling

Advice on safe handling:

Wear personal Protective equipment ensure adequate ventilation do not get in eyes, on skin, or on clothing Avoid ingestion and inhalation avoid dust formation

Hygiene measures:

Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately. Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist. Use adequate ventilation to keep airborne concentrations low.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage area containers:

Store in tightly closed containers in cool dry well ventilated area away from incompatible substances

Advice on Protection Against fire and explosion:

Keep in Dry, Cool and well ventilated place keep in container tightly closed Keep away from heat and sources of ignition flammables area

Further information on storage conditions:

Keep tightly closed in a dry and cool place. Keep in well ventilated place.

Advice on common storage:

Keep away from food, drink and animal feeding stuffs.

8.0 Exposure controls/ personal protection

8.1 Control parameters

This product, as supplied does not contain and hazardous material with occupational exposure limits established by the region specific regulatory bodies.

SODIUM LAURYL SULFATE; SDS; DODECYL SODIUM SULFATE

Derived No Effect Level (DNEL)

No Information available

Predicted No Effect Concentration (PNEC)

No Information available

Exposure Controls

Engineering Measures

Use explosion-proof electrical/ventilating/lighting/equipment Ensure that eyewas stations and safety showers are close to the workshop location

Personal Protective Equipment

Eye Protection

Goggles

Hand Protection

Protective Gloves

Skin and Body Protection

Wear appropriate protective gloves and clothing to prevent skin exposure

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standards EN149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

Hygiene Measures

Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice
Environmental exposure controls	No information available

9.0 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	Solid
Colour	White
Odour	Slight
PH	8.5 - 10 1% aq.sol.
Vapor Pressure	No Date Available
Vapor Density	No Date Available
Boiling Point/ Range	No Date Available
Melting Point/ Range	206deg C / 402.8deg F
Flash Point	>100deg C / >212deg F
Water Solubility	ca.150g/l in water (20degC)
Molecular Formula	C12 H25 Na O4 S
Molecular Weight	288.38

10.0 Stability and reactivity

10.1 Reactivity	No Data Available
10.2 Chemical stability	This Product is Stable under normal conditions (temperature and pressure)
10.3 Possibility of hazardous reactions	
Hazardous Reactions	Hazardous polymerization does not occur
Hazardous reaction:	No Data Available
10.4 Conditions to avoid	Keep away from open flames, hot surfaces and sources of ignition, Excess heat, Incompatible products
10.5 Incompatible materials	
Materials to avoid:	Acids Strong Acids Strong Bases Strong Oxidising agents
10.6 Hazardous decomposition products	Carbon Monoxide Carbon Dioxide Sodium Oxides Sulfur Oxides

11.0 Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity

Product Information No acute toxicity Information is available for this product

Component Information

Component	Sodium Lauryl Sulfate
LD50 Oral	1288 mg/kg (Rat)
LD50 Dermal	580 mg/kg (Rabbit)
LC50 Inhalation	3900 mg/m3 (Rat) 1h

Chronic Toxicity

Carcinogenicity	There are no known carcinogenic chemicals in this product
Sensitization	No Information available
Mutagenic Effects	No Information available
Reproductive Effects	No Information available
Development Effects	No Information available
Target Organs	No Information available
Other Adverse Effects	The toxicological properties have not been fully investigated
Endocrine Disruptor Information	None known

12.0 Ecological Information

Component Sodium Lauryl Sulfate

FRESHWATER ALGAE	117 mg/L EC50 = 96h 3.59-15.6 mg/L EC50 96h 53mg/L EC50= 72 h 30 - 100 mg/L EC50 96h
FRESHWATER FISH	1.31 mg/L LC50 96h 9.9-20.1 mg/L LC50 96h 4.5 mg/L LC50 96h 4.62 mg/L LC50 96h 7.97 mg/L LC50 96h 10.2-22.5 mg/L LC50 96h 10.8-16.6 mg/L LC50 96h 13.5-18.3mg/L LC50 96h 15-18.9mg/L LC50 96h 22.1-22.8 mg/L LC50 96h 4.06-5.75 mg/L LC50 96h 4.2-4.8 mg/L LC50 96h 4.3-8.5 mg/L LC50 96h 5.8-7.5 mg/L LC50 96h 6.2-906 mg/L LC50 96h 8-12.5mg/L LC50 96h 4.2 mg/L LC50 96h
MICROTOX	=0.46mg/L EC50 Photobacterium phosphoreum 30 min = 0.72 mg/L EC50 Photobacterium Phosphoreum 15 min = 1.19 mg/L Ec50 Photobacterium phosphoreum 5 min

WATER FLEA	1.8 mg/L EC50 = 48h
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Ecotoxicity effects Do not flush into surface water or sanitary water sewer system. Do not allow material to contaminate ground water system Do not empty into drains

Persistence and degradability
Expected to be biodegradable
Bioaccumulative Potential
No Information available

Sodium Lauryl Sulfate 1.6 Log Pow

Mobility in Soil
Results of PBT and vPvB assessment
Other adverse effects
No information available

13.0 Disposal considerations

13.1 Waste treatment methods

Product Disposal together with normal waste is not allowed. Special disposal required to local regulations. Do not let product enter drains. Contact waste disposal services.

Contaminated Packaging Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

European Waste Catalogue Number No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

14.0 Transport information

IMDG/IMO

UN Number	UN1325
Hazard Class	4.1
Packing Group	III
Proper Shipping Name	Flammable solid, organic, N.O.S

ADR

UN Number	UN1325
Hazard Class	4.1
Packing Group	III
Proper Shipping Name	Flammable solid, organic, N.O.S

IATA

UN Number	UN1325
Hazard Class	4.1
Packing Group	III
Proper Shipping Name	Flammable solid, organic, N.O.S

15.0 Regulatory Information

Component Sulfuric Acid, monododecyl ester, lithium salt

EINECS	205788-1
ELINCS	-
NLP	-
TSCA	X
DSL	X
NDSL	-
PICCS	X
ENCS	X
CHINA	X
AICS	X
KECL	KE- 21884X

Ledgend

TSCA	United States Toxic Substance Control Act Section 8 (b) Inventory
EINECS/ELINCS	European Inventory Lists
DSL/NDSL	Canadian Domestic Substances List/Non-Domestic Substances List
ENCS	Japan Existing and New Chemical Substances
CHINA	China Inventory of existing Chemical Substances
AIC	Inventory of Chemical Substances
KECL	Existing and Evaluated Chemical Substances
PICCS	Philippines Inventory of Chemicals and Chemical Substances

16.0 Other information**Full text of R-Phrases referred to under section 2 and 3**

R11	Highly Flammable
R20/21/22	Harmful by inhalation and if swallowed and if contact with with skin
R36/37/38	Irritating to eyes respiratory system and skin

Full text of H-Statements referred to under section 2 and 3

Hazard Statements:

H312	HARMFUL IN CONTACT WITH SKIN
H335	MAY CAUSE RESPIRATORY IRRITATION
H315	CAUSES SKIN IRRITATION
H319	CAUSES SERIOUSE EYE IRRATATION
H302	HARMFUL IF SWALLOWED
H332	HARMFUL IF INHALED
H228	FLAMMABLE SOLID

Other information

This information is based upon Solumetrics Ltd Knowledge of this product at the time this Safety Data Sheet was prepared. It is given in good faith and no warranty is implied. The information is belived to be correct but does not purport to be all inclusive and shall be used only as a guide. The user must satisfy him/her self as to the purpose this product is put to and the possible change in classification should this product be mixed or formulated with other compounds