



Safety Data Sheet

According to Regulation (EC) no. 1907/2006

Product Name
LITHIUM DODECYL SULFATE

1.0 Chemical product and company identification

1.1 Product Identifier

MSDS Name: LITHIUM DODECYL SULFATE
Substance name: LITHIUM LAURYL SULFATE; DODECYL LITHIUM SULFATE
CAS No: 2044-56-6
PRODUCT CODE: LD

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

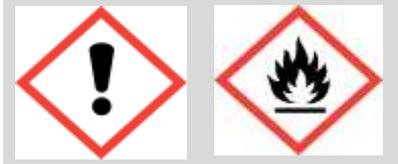
Classification according to EU Directives 67/548/EEC or 1999/45/EC

Symbols
Xn - Harmful
F - Highly Flammable

R - Phrases
R11 - Highly Flammable

Risk Combination Phrases
R36/37/38 - Irritating to eyes, respiratory system and skin
R20/22 - Harmful by inhalation 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:
H335
H315
H319
H302
H332
H228
MAY CAUSE RESPIRATORY IRRITATION
CAUSES SKIN IRRITATION
CAUSES SERIOUS EYE IRRITATION
HARMFUL IF SWALLOWED
HARMFUL IF INHALED
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
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 POSION 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. 218-058-2	Sulfuric Acid, monododecyl ester, lithium salt 2044-56-6	STOT SE3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H302) Acute Tox. 4 (H332) Flam.sol.2 (H228)	F;R11 Xn:R20/22 Xi:R36/37/38

Weight %	CAS No
>95	2044-56-6

Chemical Nature:

LITHIUM LAURYL SULFATE; DODECYL LITHIUM SULFATE CAS 2044-56-6

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: Get medical attention as soon as possible. Flush the skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash clothing before reuse.

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: 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.

5.0 FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Un-Suitable extinguishing Media: No information Available

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting: Thermal decomposition can lead to release of irritating gases and vapors

5.3 Advice for fire-fighters

Special protective equipment for fire-fighters: Wear a self-contained breathing apparatus in pressure demand, MSHA/NIOSH (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 vegetation.

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.

LITHIUM LAURYL SULFATE; DODECYL LITHIUM SULFATE

CAS 2044-56-6

Regulatory Basis
Regulatory List
Value Type
Value

UK. EH40 Workplace Exposure Limits (WELs)
EH40 WEL

8.2 Exposure controls**Engineering measures**

Ensure that eyewash stations and safety showers are close to the workstation location ensure adequate ventilation, especially in confined areas.

Refer to protective measures listed in sections 7 and 8

Personal protective equipment**Respiratory protection**

Advice:	Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standards EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced
Hand Protection Advice:	Wear suitable protective clothing, gloves check for compatibility with the manufacturers' guidelines to prevent skin exposure Wear appropriate protective clothing to prevent skin exposure.
Eye Protection Advice:	Tightly fitting safety goggles Wear appropriate protective eyeglasses or chemical safety goggles or full face protection. (European standard EN166).
Skin and Body Protection Advice:	The selection of personal protective equipment and procedures for use should be based on the work place risk assessment and local legislation. Respiratory protective equipment and gloves etc should be changed at regular intervals as specified in the work place risk assessment and in accordance with the manufacturer's information.
Environmental exposure controls	
General advice	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 for such cases

9.0 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	Solid
Colour	White
Odour	No Odour
Odour Threshold	
PH	No Data Available
Freezing Point	No Data Available
Boiling Point	No Data Available
Flash Point	No Data Available
Density	No Data Available
Water solubility	Freely Soluble
Ignition Temperature	No Data Available
Molecular Formula	C12 H25 Li O4 S
Molecular Weight	272.33
Oxidizing Properties	No Data Available

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 reaction:	No Data Available
10.4 Conditions to avoid	Contact with incompatible materials, Dust generation, Excessive heat.
10.5 Incompatible materials	
Materials to avoid:	Materials to avoid Strong Oxidising agents
10.6 Hazardous decomposition products	Carbon Monoxide Carbon Dioxide Sulfur Oxides

11.0 Toxicological Information

11.1 Information on toxicological effects

LITHIUM DODECYL SULFATE

Inhalation

Remarks	Inhalation may cause pain in respiratory system, sneezing coughing and difficulty in breathing.
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Irritation

Skin

In case of contact with skin, rinse immediately with plenty of water.

Eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

Sensitisation

No Information available

Further Information

Not listed as a carcinogen by ACGIH, IARC, NTP or CA prop 65

12.0 Ecological Information

12.1 Toxicity

LITHIUM DODECYL SULFATE

Acute toxicity

Fish

Species

No Ecological data available for this material. They will be included in the safety data sheets when available

Exposure Time

Value Type

Value

Species

No Ecological data available for this material. They will be included in the safety data sheets when available

Exposure Time

Value Type

Value

Toxicity to daphnia and other aquatic invertebrates

Species

No Ecological data available for this material. They will be included in the safety data sheets when available

Exposure Time

Value Type

Value

Bacteria

Species

No Ecological data available for this material. They will be included in the safety data sheets when available

Exposure Time

Value Type

Value

12.2 Persistence and degradability

LITHIUM DODECYL SULFATE

Persistence and degradability

Biodegradability

Remarks

No Ecological data available for this material. They will be included in the safety data sheets when available

12.3 Bioaccumulative potential

LITHIUM DODECYL SULFATE

Bioaccumulation

Remarks

No Ecological data available for this material. They will be included in the safety data sheets when available

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

LITHIUM DODECYL SULFATE

Additional ecological information

Remarks

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	218-058-2
ELINCS	-
NLP	-
TSCA	X
DSL	X
NDSL	-
PICCS	X
ENCS	X
CHINA	X
AICS	X
KECL	KE- 22557X

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
R20/22	Harmful by inhalation and if swallowed
R36/37/38	Irritating to eyes respiratory system and skin

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

Hazard Statements:	
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 believed 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