
1. PRODUCT AND COMPANY IDENTIFICATION

Product name	Sodium lauryl sulfate
Synonyms	Lauryl sulfate sodium salt, Dodecyl sodium sulfate, Dodecyl sulfate sodium salt, SDS, Sodium dodecyl sulfate
Grade	ACS, HPLC, Pesticide, Anapremium, Dehydrous
Company	Anaqua Chemicals Supply 1510 Eldridge Parkway, Suite 110-268 Houston, TX 77077, USA
Telephone	(281) 668-0032
Fax	(281) 668-0033

2. COMPOSITION/ INFORMATION ON INGREDIENTS

Formula	C ₁₂ H ₂₅ NaSO ₄
CAS-No.	151-21-3
Ec-No.	205-788-1

3. HAZARDS IDENTIFICATION**Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Flammable solids	Category 1
Acute toxicity, Oral	Category 4
Acute toxicity, Dermal	Category 3
Skin irritation	Category 2
Eye irritation	Category 2
Specific target organ toxicity - single exposure	Category 3

According to European Directive 67/548/EEC as amended.

Highly flammable. Harmful in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.

4. FIRST AID MEASURES

Inhalation	If breathed in, move into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Skin Contact	Immediately wash off with soap and plenty of water. Consult a physician.

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician.

Most important symptoms and effects, both acute and delayed

sneezing, The sodium salt of dodecyl sulfate has been reported to cause pulmonary sensitization resulting in hyperactive airway dysfunction and pulmonary allergy accompanied by fatigue, malaise, and aching. Significant symptoms of exposure can persist for more than two years and can be activated by a variety of nonspecific environmental stimuli such as automobile exhaust, perfumes, and passive smoking..

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, Sulphur oxides, Sodium oxides
Special protective equipment for fire-fighters	Wear self contained breathing apparatus for fighting fire if necessary. Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid breathing dust.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

7. HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
Storage	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. hygroscopic

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational exposure controls

Engineering Measures	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
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Personal protective

Equipment

Respiratory protection	Use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls when risk assessment shows air-purifying respirators are appropriate. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
Skin protection	Handle with gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374 derived from it.
Eye / face protection	Tightly fitting face shield (8-inch minimum) and safety glasses
Body protection	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Solid
Color	White
pH	7.2
Melting point	204 – 207 °C
Boiling point	No data available
Flash point	180 °C
Flamability (solid, gas)	The substance or mixture is a flammable solid with the subcategory 1.
Lower explosion limit	No data available
Vapor pressure	No data available
Density	0.370 g/cm ³
Partition coefficient: noctanol / water	log Pow: 1.6
Water solubility	Soluble
Molecular weight	288.38

10. STABILITY AND REACTIVITY

Storage stability	No information available
Conditions to avoid	Heat, flames and sparks. Extremes of temperature and direct sunlight
Materials to avoid	Oxidizing agents
Hazardous decomposition products	No information available

11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 Oral - rat – 1,288 mg/kg LC50 Inhalation - rat - 1 h - > 3,900 mg/m ³
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		LD50 Dermal - rabbit - 580 mg/kg
Skin irritation		Skin - rabbit - Skin irritation - 24 h
Eyes irritation		Eyes - rabbit - Eye irritation
Sensitization		Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
Germ cell mutagenicity		No available information
Specific target organ toxicity – single exposure		Inhalation - May cause respiratory irritation.
Carcinogenicity		IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity		No available information
Aspiration hazard		No available information
Potential health effects	Inhalation	May be harmful if inhaled. May cause respiratory tract irritation
	Ingestion	Harmful if swallowed.
	Skin	Toxic if absorbed through skin. Causes skin irritation.
	Eyes	Causes serious eye irritation
Signs and Symptoms of Exposure		sneezing, The sodium salt of dodecyl sulfate has been reported to cause pulmonary sensitization resulting in hyperactive airway dysfunction and pulmonary allergy accompanied by fatigue, malaise, and aching. Significant symptoms of exposure can persist for more than two years and can be activated by a variety of nonspecific environmental stimuli such as automobile exhaust, perfumes, and passive smoking.
Additional Information		RTECS: WT1050000

12. ECOLOGICAL INFORMATION

Persistence and degradability	No available information
Toxicity to fish	Mortality NOEC- Oncorhynchus mykiss(rainbow trout) –19.5mg/l-96 h Mortality LOEC- Pimephales promelas(fathead minnow)–4.6mg/l -8 d LC50 - Oncorhynchus mykiss (rainbow trout) – 3.6 mg/l - 96 h
Toxicity to algae	Growth inhibition LOEC - Pseudokirchneriella subcapitata - 2,68 mg/l - 6 d
Bioaccumulative potential	Bioaccumulation Cyprinus carpio (Carp) - 72 h Bioconcentration factor (BCF): 3.9 – 5.3
Results of PBT and vPvB assessment	No available information
Mobility	No available information
Other adverse effects	Toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

Product	Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	Dispose of as unused product.

14. TRANSPORT INFORMATION

IATA

UN-Number: 2926 Class: 4.1 (6.1) Packing group: II
Proper shipping name: Flammable solid, toxic, organic, N.O.S. (Sodium dodecyl sulphate)

IMDG

UN-Number: 2926 Class: 4.1 (6.1) Packing group: II
Proper shipping name: Flammable solid, toxic, organic, N.O.S. (Sodium dodecyl sulphate)

DOT (US)

UN-Number: 2926 Class: 4.1 (6.1) Packing group: -
Proper shipping name: Flammable solid, toxic, organic, N.O.S. (Sodium dodecyl sulphate)
Marine pollution: No

15. REGULATORY INFORMATION

Hazard statement(s)

- H228: Flammable solid.
- H302: Harmful if swallowed.
- H311: Toxic in contact with skin.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation.

Precautionary statement(s)

- P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P261: Avoid breathing dust.
- P280: Wear protective gloves/ protective clothing.
- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312: Call a POISON CENTER or doctor/ physician if you feel unwell.

GHS-Labeling

Pictogram



Signal word: *Danger*

R-phrase(s): 11-21-36/37/38

Highly flammable. Harmful in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.

S-phrase(s): 26-36/37

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves.

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture: No data available

Chemical Safety Assessment: No data available

16. OTHER INFORMATION

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