

1: Identification of substance / mixture

1. Product Identifier

Substance

Product Name **SODIUM DODECYL SULPHATE**
Product Code L22010
CAS Number 151-21-3
Other Names L22010
IUPAC
MFCD Number
EC/EINECS 205-788-1
REACH Number Index-No

2. Relevant identified uses of the substance or mixture and uses advised against

For research and laboratory use only.

3. Details of the supplier of the safety data sheet

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4. Emergency telephone number

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2. Hazards Identification

1. Classification of the substance or mixture

H315	Skin Irrit. 2	
H318	Eye Dam. 1	
H335	STOT SE 3	
H412	Aquatic Chronic 3	

2. Label elements

Signal Word **Danger**



Hazard Statements

H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

3. Composition / Information on Ingredients

1. Substances

Product Name	Hazards	Concentration
SODIUM DODECYL SULPHATE		
CAS Number: 151-21-3 EC/EINECS: 205-788-1	H302 + H332, H315, H318, H335, H412 Acute Tox. 4, Aquatic Chronic 3, Eye Dam. 1, Skin Irrit. 2, STOT SE 3	<=100%

4. First Aid Measures

1. Description of first aid measures

<i>Skin Contact</i>	P302 + P352: IF ON SKIN: Wash with plenty of soap and water. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.
<i>Eye Contact</i>	P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Bathe the eye with running water for 15 minutes. Ensure adequate flushing by separating the eyelids with fingers Consult a doctor.
<i>Ingestion</i>	Wash out mouth with water. Consult a doctor.
<i>Inhalation</i>	P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Move to fresh air in case of accidental inhalation. Treat symptomatically and supportively. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Consult a doctor.

2. Most important symptoms and effects

The most important known symptoms and effects are described in the labelling and/or in section 11

3. Indication of any immediate medical attention

No data available

5. Firefighting measures

1. Extinguishing Media

<i>Suitable</i>	Water spray. Carbon dioxide. Dry chemical powder. Alcohol or polymer foam.
<i>Unsuitable</i>	No data available

2. Special Hazards arising from the substance or mixture

In combustion emits toxic fumes:
carbon dioxide / carbon monoxide.
sulphur oxides.
Sodium oxides

3. Advice for Fire Fighters

Wear self-contained breathing apparatus.
Wear protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

1. Personal Precautions

Refer to section 8 of SDS for personal protection details.
Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid breathing dust.

2. Environmental Precautions

Do not discharge into drains or rivers.
Discharge into the environment must be avoided

3. Methods & Materials

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)

4. Preventing the occurrence of secondary hazards.

Clean up all spills immediately. Wear suitable PPE.

7. Handling and Storage

1. Personal Precautions

<i>Safe Handling</i>	Ensure there is exhaust ventilation of the area. Avoid the formation or spread of dust in the air. Avoid direct contact with the substance. Occupational Exposure band Rating: E Occupational exposure Band Limit <= 0.01mg/m3 P273: Avoid release to the environment.
<i>Protection against explosions and fires</i>	Normal measures for preventive fire protection.

2. Conditions for safe storage, including any incompatibilities

<i>Managing Storage Risks</i>	Store in cool, well ventilated area. Keep container tightly closed. Hygroscopic.
<i>Storage Controls</i>	Keep container tightly closed.
<i>Maintaining Integrity</i>	Store away from sources of ignition.
<i>Other advice</i>	no further information available

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls

<i>General protective and hygiene measures</i>	P280: Wear protective gloves/protective clothing/eye protection/face protection. The standard precautionary measures should be adhered to when handling Avoid contact with skin and eyes
<i>Engineering measures</i>	Ensure there is exhaust ventilation of the area. Handle in a chemical fumehood where possible.
<i>Eye / Face Protection</i>	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)
<i>Hand protection</i>	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
<i>Respiratory protection</i>	P261: Avoid breathing dust/fume/gas/mist/vapours/spray. Where risk assessment shows air-purifying respirators are required use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full- face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
<i>Skin protection</i>	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.
<i>Other personal protection advice</i>	no data

9. Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	White powder
Odour	Odourless
Odour threshold	No Data Available
PH	6-8
Melting point / Freezing point	204-207°C
Initial boiling point and boiling range	No Data Available
Flash point	>150°C
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	No Data Available
Vapour pressure	0.0018 hPa at 20 °C
Vapour density	No Data Available
Relative density	No Data Available
Solubility(ies):	Soluble in water
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	310.5 °C
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive properties	No Data Available
Oxidising properties	No Data Available

2. Other Information

No additional information available

10. Stability and Reactivity

1. Reactivity

No data available

2. Stability

Stable under recommended storage conditions

3. Possibility of Hazardous Reactions

No data available

4. Conditions to Avoid

Extremes of temperature and direct sunlight.

5. Incompatible Materials

Oxidizing agents.
Strong Acids Strong Bases

6. Hazardous Decomposition Products

In combustion emits toxic fumes:
carbon dioxide / carbon monoxide.
sulphur oxides.
Sodium oxides

11. Toxicology information

1. Information

<i>Acute Toxicity</i>	Component information-Sodium Lauryl Sulfate LD50 Oral-Rat-1,288 mg/kg LC50 Inhalation-Rat-1 h-> 3,900 mg/m ³ LD50 Dermal-Rabbit >2000 mg/kg Sodium Chloride LD50 Oral-Rat 3 g/kg
<i>Skin corrosion/irritation</i>	Skin-Rabbit Result: Skin irritation-24 h (OECD Test Guideline 404)
<i>Serious eye Damage/irritation</i>	Eyes-Rabbit Result: Risk of serious damage to eyes. (OECD Test Guideline 405)
<i>Respiratory or skin sensitisation</i>	No sensitizing effect known
<i>Germ Cell mutagenicity</i>	Ames test S. typhimurium Result: negative
<i>Carcinogenicity</i>	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.
<i>Reproductive toxicity</i>	No data available
<i>STOT-single exposure</i>	No data available
<i>STOT-repeated exposure</i>	No data available
<i>Aspiration hazard</i>	No data available

2. Additional

RTECS: WT1050000
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.
sneezing, The sodium salt of dodecyl sulfate has been reported to cause pulm

12. Ecological Information

1. Toxicity

Toxicity to fish
flow-through test LC50-Pimephales promelas (fathead minnow)-29 mg/l-96 h

Toxicity to daphnia and other aquatic invertebrates
flow-through test EC50-Daphnia dubia (water flea)-5.55 mg/l-48 h

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

2. Persistence and degradability

Biodegradability
aerobic-Exposure time 28 d
Result: 95 %-Readily biodegradable
(OECD Test Guideline 301B)

Ratio BOD/ThBOD 95.9 %

3. Bio-Accumulative Potential

Bioaccumulation
Cyprinus carpio (Carp)-72 h

Bioconcentration factor (BCF): 3.9 -5.3

4. Mobility and Soil

No data available

5. Results of PBT & vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

6. Other adverse effects

Toxic to aquatic life.

13. Disposal Considerations

1. Waste Treatment Methods

Disposal Operations Consult state, local or national regulations for proper disposal.

Disposal of Packaging Disposal must be made according to official regulations.

14. Transport Information

Air (ICAO)

Not classified as hazardous for transport

Road (ADR)

Not classified as hazardous for transport

Sea (IMDG)

Not classified as hazardous for transport

15. Safety, health, environmental and national regulations

1. Safety, health, environmental and national regulations:

product is not subject to any additional regulations or provisions

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

ADR: Accord Europeen sur le transport des marchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)

RID:Reglement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association

ICAO:International Civil Aviation Organization

ICAO-TI: Technical Instructions by the ICAO

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS:Chemical Abstracts Service

3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.