

1: Identification of substance / mixture

1. Product Identifier

Mixture

Product Name **Sodium Dodecyl Sulphate (SDS) 20% Solution**
Product Code L23100
CAS Number
Other Names
IUPAC
MFCN Number
EC/EINECS
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

Melford Laboratories Ltd
Bildeston Road, Chelsworth
Ipswich
Suffolk
IP77LE
UK



Telephone: 01449 741178
Fax: 01449 741217
Email: support@melford.co.uk

4. Emergency telephone number

+44(0)1449 741178 -

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

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.

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 (SDS) 20% Solution		

H315, H318, H335, H412 Aquatic Chronic 3, Eye Dam. 1, Skin Irrit. 2, STOT SE 3	<=100%
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4. First Aid Measures

1. Description of first aid measures

- Skin Contact** 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.
- Eye Contact** 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.
- Ingestion** Wash out mouth with water.
Consult a doctor.
- Inhalation** 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

No data available

3. Indication of any immediate medical attention

P312: Call a POISON CENTER or doctor/physician if you feel unwell.
No data available

5. Firefighting measures

1. Extinguishing Media

Suitable Water spray.
Carbon dioxide.
Dry chemical powder.
Alcohol or polymer foam.

Unsuitable No data available

2. Special Hazards arising from the substance or mixture

No data available

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.

2. Environmental Precautions

Do not discharge into drains or rivers.

3. Methods & Materials

Absorb into dry earth or sand.
Transfer to a closable, labelled salvage container for disposal by an appropriate method.
Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

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>	Avoid direct contact with the substance. Ensure there is exhaust ventilation of the area.
<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.
<i>Storage Controls</i>	Keep container tightly closed.
<i>Maintaining Integrity</i>	No special requirements
<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
<i>Engineering measures</i>	Ensure there is exhaust ventilation of the area.
<i>Eye / Face Protection</i>	Safety Glasses. Ensure eye bath is to hand. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)
<i>Hand protection</i>	Protective gloves. 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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it
<i>Respiratory protection</i>	P261: Avoid breathing dust/fume/gas/mist/vapours/spray. Respiratory protective device with particle filter. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
<i>Skin protection</i>	Protective clothing. Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., 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	liquid
Odour	No Data Available

Odour threshold	No Data Available
PH	No Data Available
Melting point / Freezing point	No Data Available
Initial boiling point and boiling range	No Data Available
Flash point	No Data Available
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	No Data Available
Vapour pressure	No Data Available
Vapour density	No Data Available
Relative density	1.03g/ml at 20°C
Solubility(ies):	No Data Available
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	No Data Available
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

No data available

5. Incompatible Materials

Strong oxidizing agents.
Bases.

6. Hazardous Decomposition Products

NNo data available

11. Toxicology information

1. Information

<i>Acute Toxicity</i>	Component- Sodium dodecyl sulphate LD50 Oral 1288 mg/kg (Rat) LD50 Dermal 580 mg/kg (Rabbit) LD50 Inhalation 3900 mg/m3 (Rat)-1 h
<i>Skin corrosion/irritation</i>	No data
<i>Serious eye Damage/irritation</i>	No data
<i>Respiratory or skin sensitisation</i>	No data
<i>Germ Cell mutagenicity</i>	no data

<i>Carcinogenicity</i>	not known
<i>Reproductive toxicity</i>	not known
<i>STOT-single exposure</i>	not known
<i>STOT-repeated exposure</i>	not known
<i>Aspiration hazard</i>	not known

2. Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

12. Ecological Information

1. Toxicity

Component- Sodium dodecyl sulphate

LC50 15-18.9 mg/L Pimephales promelas 96 h
LC50 4.06-5.75 mg/L Lepomis macrochirus 96 h
LC50 4.2-4.8 mg/L Lepomis macrochirus 96 h
LC50 6.2-9.6 mg/L Pimephales promelas 96 h
LC50= 4.5 mg/L Lepomis macrochirus 96 h
LC50= 4.62 mg/L Oncorhynchus mykiss 96 h
LC50 10.8-16.6 mg/L Poecilia reticulata 96 h
LC50 22.1-22.8 mg/L Pimephales promelas 96 h
LC50 4.3-8.5 mg/L Oncorhynchus mykiss 96 h
LC50= 1.31 mg/L Cyprinus carpio 96 h
LC50= 7.97 mg/L Brachydanio rerio 96 h

2. Persistence and degradability

No data available

3. Bio-Accumulative Potential

not known

4. Mobility and Soil

not known

5. Results of PBT & vPvB assessment

not known

6. Other adverse effects

not known

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.