

### SECTION 1: Identification

#### 1.1. Product identifier

Product form : Mixture  
 Trade name : SODIUM LAURYL SULFATE SOLN  
 Product code : 219136x  
 Formula : C12H25NaO4S

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

Recommended uses and restrictions : For laboratory use only

#### 1.3. Supplier's details

Labchem (Pty)Ltd  
 6 Wakefield Road  
 Founders Hill  
 1609 Johannesburg - South Africa  
 T +27 11 452 1116 - F +27 86 588 0293  
[techlab@labchem.co.za](mailto:techlab@labchem.co.za) - [www.labchem.co.za](http://www.labchem.co.za)

#### 1.4. Emergency telephone number

Emergency number : +27 11 452 1116

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to the United Nations GHS

Not classified

#### 2.2. Label elements

##### Labelling according to the United Nations GHS

No labelling applicable

#### 2.3. Other hazards

Adverse physicochemical, human health and environmental effects : To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name                    | Product identifier  | %      | Classification according to the United Nations GHS                        |
|-------------------------|---------------------|--------|---|
| water                   | (CAS-No.) 7732-18-5 | > 99.5 | Not classified  |
| sodium dodecyl sulphate | (CAS-No.) 151-21-3  | < 0.5  | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Aquatic Acute 3, H402 |

Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
 First-aid measures after skin contact : Wash skin with plenty of water.  
 First-aid measures after eye contact : Rinse eyes with water as a precaution.  
 First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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According to SANS 10234:2019 and SANS 11014:2010

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Protective gloves

Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

**Personal protective equipment symbol(s):**



### 8.4. Exposure limit values for the other components

No additional information available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Translucent. Soft, soapy texture.

Colour : Colourless.

Odour : No data available

Odour threshold : No data available

pH : No data available

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According to SANS 10234:2019 and SANS 11014:2010

|   |                        |
|---|------------------------|
| pH solution                                     | : No data available    |
| Relative evaporation rate (butylacetate=1)      | : No data available    |
| Relative evaporation rate (ether=1)             | : No data available    |
| Melting point                                   | : Not applicable       |
| Freezing point                                  | : No data available    |
| Boiling point                                   | : No data available    |
| Flash point                                     | : No data available    |
| Auto-ignition temperature                       | : No data available    |
| Decomposition temperature                       | : No data available    |
| Flammability (solid, gas)                       | : Not applicable       |
| Vapour pressure                                 | : No data available    |
| Vapour pressure at 50 °C                        | : No data available    |
| Relative vapour density at 20 °C                | : No data available    |
| Relative density                                | : No data available    |
| Relative density of saturated gas/air mixture   | : No data available    |
| Density   | : No data available    |
| Relative gas density                            | : No data available    |
| Solubility                                      | : Miscible with water. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available    |
| Partition coefficient n-octanol/water (Log Kow) | : No data available    |
| Viscosity, kinematic                            | : No data available    |
| Viscosity, dynamic                              | : No data available    |
| Explosive properties                            | : No data available    |
| Oxidising properties                            | : No data available    |
| Explosive limits                                | : No data available    |
| Lower explosive limit (LEL)                     | : No data available    |
| Upper explosive limit (UEL)                     | : No data available    |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| sodium dodecyl sulphate (151-21-3) |  |
|------------------------------------|--|
| LD50 oral rat                      | 1200 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))           |
| LD50 dermal rabbit                 | > 2000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Read-across, Dermal, 14 day(s)) |

|                               |                  |
|-------------------------------|------------------|
| Skin corrosion/irritation     | : Not classified |
| Serious eye damage/irritation | : Not classified |

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## Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

|                                   |                  |
|-----------------------------------|------------------|
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity            | : Not classified |
| Carcinogenicity                   | : Not classified |
| Reproductive toxicity             | : Not classified |
| STOT-single exposure              | : Not classified |
| STOT-repeated exposure            | : Not classified |
| Aspiration hazard                 | : Not classified |

### SECTION 12: Ecological information

#### 12.1. Toxicity

|   |   |
|---|---|
| Ecology - general   | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified  |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified  |

| sodium dodecyl sulphate (151-21-3)              |  |
|---|--|
| LC50 fish 1                                     | 29 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal) |
| EC50 72h algae (1)                              | > 120 mg/l (DIN 38412-9, Scenedesmus subspicatus, Static system, Fresh water, Experimental value, Growth rate)                       |
| EC50 72h algae (2)                              | 53 mg/l (DIN 38412-9, Scenedesmus subspicatus, Static system, Fresh water, Experimental value, Biomass)                              |
| BCF fish 1                                      | 3.9 – 5.3 (72 h, Cyprinus carpio)  |
| BCF fish 2                                      | 7.15 (Pisces, Chronic)   |
| Partition coefficient n-octanol/water (Log Pow) | ≤ -2.03 (Calculated, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)                                   |
| Partition coefficient n-octanol/water (Log Koc) | 1.545 (log Koc, SRC PCKOCWIN v2.0, Experimental value)   |

#### 12.2. Persistence and degradability

| SODIUM LAURYL SULFATE SOLN    |                                     |
|-------------------------------|-------------------------------------|
| Persistence and degradability | No additional information available |

| sodium dodecyl sulphate (151-21-3) |                                 |
|------------------------------------|---------------------------------|
| Persistence and degradability      | Readily biodegradable in water. |

#### 12.3. Bioaccumulative potential

| SODIUM LAURYL SULFATE SOLN |                                     |
|----------------------------|-------------------------------------|
| Bioaccumulative potential  | No additional information available |

| sodium dodecyl sulphate (151-21-3)              |  |
|---|--|
| BCF fish 1                                      | 3.9 – 5.3 (72 h, Cyprinus carpio)  |
| BCF fish 2                                      | 7.15 (Pisces, Chronic)   |
| Partition coefficient n-octanol/water (Log Pow) | ≤ -2.03 (Calculated, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C) |
| Partition coefficient n-octanol/water (Log Koc) | 1.545 (log Koc, SRC PCKOCWIN v2.0, Experimental value)   |
| Bioaccumulative potential                       | Not bioaccumulative.   |

#### 12.4. Mobility in soil

| SODIUM LAURYL SULFATE SOLN |                                     |
|----------------------------|-------------------------------------|
| Mobility in soil           | No additional information available |

| sodium dodecyl sulphate (151-21-3)              |  |
|---|--|
| Surface tension                                 | 0.0252 N/m (23 °C, 1 g/l, EU Method A.5: Surface tension)  |
| Partition coefficient n-octanol/water (Log Pow) | ≤ -2.03 (Calculated, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C) |
| Partition coefficient n-octanol/water (Log Koc) | 1.545 (log Koc, SRC PCKOCWIN v2.0, Experimental value)   |
| Ecology - soil                                  | Highly mobile in soil.   |

#### 12.5. Other adverse effects

|                       |                                       |
|-----------------------|---------------------------------------|
| Ozone                 | : Not classified                      |
| Other adverse effects | : No additional information available |

# SODIUM LAURYL SULFATE SOLN

## Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

### SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

| SANS                                    | IMDG                               | IATA                               |
|---|------------------------------------|------------------------------------|
| <b>14.1. UN number</b>                  |                                    |                                    |
| Not regulated for transport             |                                    |                                    |
| <b>14.2. Proper Shipping Name</b>       |                                    |                                    |
| Not applicable                          | Not applicable                     | Not applicable                     |
| <b>14.3. Transport hazard class(es)</b> |                                    |                                    |
| Not applicable                          | Not applicable                     | Not applicable                     |
| Not applicable                          | Not applicable                     | Not applicable                     |
| <b>14.4. Packing group</b>              |                                    |                                    |
| Not applicable                          | Not applicable                     | Not applicable                     |
| <b>14.5. Environmental hazards</b>      |                                    |                                    |
| Dangerous for the environment : No      | Dangerous for the environment : No | Dangerous for the environment : No |
| No supplementary information available  |                                    |                                    |

#### 14.6. Special precautions for user

##### - SANS

No data available

##### - IMDG

No data available

##### - IATA

No data available

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### SECTION 15: Regulatory information

#### 15.1. Safety, health, and environmental national regulations specific for the product

Regulatory reference : SANS 10234:2008; SANS 11014:2010; SANS 10228:2012;SANS 10229:2010; SANS 10232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1993; National Road Traffic Act 93 of 1996.

### SECTION 16: Other information

Issue date : 02/03/2020

Revision date : 02/03/2025

Full text of H-statements:

|      |                         |
|------|-------------------------|
| H302 | Harmful if swallowed.   |
| H315 | Causes skin irritation. |
| H402 | Harmful to aquatic life |

SDS South Africa

*The data provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge. The data relates to the specific product as named and is intended as a guide to the safe handling of the product in all its facets. The data may no longer be valid if the product is used in any process or in combination with other products. This SDS is not a quality specification nor any form of guarantee.*