

Creation Date 24-Nov-2010

Revision Date 02-Feb-2024

Revision Number 9

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

|                                  |                                                     |
|----------------------------------|-----------------------------------------------------|
| <b>Product Description:</b>      | <b>Dodecyl sulfate sodium salt</b>                  |
| <b>Cat No. :</b>                 | <b>226140000; 226140025; 226141000; 226145000</b>   |
| <b>Synonyms</b>                  | Sodium lauryl sulfate; SDS; Dodecyl Sodium Sulfate  |
| <b>CAS No</b>                    | 151-21-3                                            |
| <b>EC No</b>                     | 205-788-1                                           |
| <b>Molecular Formula</b>         | C <sub>12</sub> H <sub>25</sub> Na O <sub>4</sub> S |
| <b>REACH registration number</b> | 01-2119489461-32                                    |

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

|                                       |                                                                                             |
|---------------------------------------|---------------------------------------------------------------------------------------------|
| <b>Recommended Use</b>                | Laboratory chemicals. Surfactant.                                                           |
| <b>Sector of use</b>                  | SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites    |
| <b>Product category</b>               | PC21 - Laboratory chemicals                                                                 |
| <b>Process categories</b>             | PROC15 - Use as a laboratory reagent                                                        |
| <b>Environmental release category</b> | ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates) |
| <b>Uses advised against</b>           | No Information available                                                                    |

### 1.3. Details of the supplier of the safety data sheet

#### Company

**UK entity/business name**  
 Fisher Scientific UK  
 Bishop Meadow Road,  
 Loughborough, Leicestershire LE11 5RG, United Kingdom

**EU entity/business name**  
 Thermo Fisher Scientific  
 Janssen Pharmaceuticaaan 3a, 2440 Geel, Belgium

**E-mail address** begel.sdsdesk@thermofisher.com

### 1.4. Emergency telephone number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11  
 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99  
**CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Physical hazards

# SAFETY DATA SHEET

Dodecyl sulfate sodium salt

Revision Date 02-Feb-2024

|                                                    |                   |
|----------------------------------------------------|-------------------|
| Flammable solids                                   | Category 2 (H228) |
| <b><u>Health hazards</u></b>                       |                   |
| Acute oral toxicity                                | Category 4 (H302) |
| Acute Inhalation Toxicity - Dusts and Mists        | Category 4 (H332) |
| Skin Corrosion/Irritation                          | Category 2 (H315) |
| Serious Eye Damage/Eye Irritation                  | Category 1 (H318) |
| Specific target organ toxicity - (single exposure) | Category 3 (H335) |
| <b><u>Environmental hazards</u></b>                |                   |
| Chronic aquatic toxicity                           | Category 3 (H412) |

Full text of Hazard Statements: see section 16

## 2.2. Label elements



Signal Word

**Danger**

### Hazard Statements

H228 - Flammable solid  
H302 + H332 - Harmful if swallowed or if inhaled  
H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H335 - May cause respiratory irritation  
H412 - Harmful to aquatic life with long lasting effects  
May form combustible dust concentrations in air

### Precautionary Statements

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
P304 + P340 - IF INHALED: Remove person to fresh air and keep 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  
P310 - Immediately call a POISON CENTER or doctor/physician

## 2.3. Other hazards

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB)

May form explosible dust-air mixture if dispersed  
Toxicity to Soil Dwelling Organisms  
Toxic to terrestrial vertebrates  
This product does not contain any known or suspected endocrine disruptors

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

# SAFETY DATA SHEET

Dodecyl sulfate sodium salt

Revision Date 02-Feb-2024

## 3.1. Substances

| Component               | CAS No   | EC No             | Weight % | CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567                                                                          |
|-------------------------|----------|-------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sodium dodecyl sulphate | 151-21-3 | EEC No. 205-788-1 | >95      | Flam. Sol. 2 (H228)<br>Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 1 (H318)<br>Acute Tox. 4 (H332)<br>STOT SE 3 (H335)<br>Aquatic Chronic 3 (H412) |

| Component               | Specific concentration limits (SCL's)               | M-Factor | Component notes |
|-------------------------|-----------------------------------------------------|----------|-----------------|
| Sodium dodecyl sulphate | Eye Irrit. 1:: C>=20%<br>Eye Irrit. 2 :: 10%<=C<20% | -        | -               |

|                           |                  |
|---------------------------|------------------|
| REACH registration number | 01-2119489461-32 |
|---------------------------|------------------|

Full text of Hazard Statements: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

|                                    |                                                                                                                                   |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| General Advice                     | If symptoms persist, call a physician.                                                                                            |
| Eye Contact                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. |
| Skin Contact                       | Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.                 |
| Ingestion                          | Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.                             |
| Inhalation                         | Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.                      |
| Self-Protection of the First Aider | Use personal protective equipment as required.                                                                                    |

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

Causes severe eye damage.

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

|                    |                        |
|--------------------|------------------------|
| Notes to Physician | Treat symptomatically. |
|--------------------|------------------------|

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

**Suitable Extinguishing Media**  
Water spray. Dry chemical. Foam.

**Extinguishing media which must not be used for safety reasons**  
Carbon dioxide (CO<sub>2</sub>).

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

# SAFETY DATA SHEET

Dodecyl sulfate sodium salt

Revision Date 02-Feb-2024

Flammable. Dust can form an explosive mixture with air. Keep product and empty container away from heat and sources of ignition. Fine dust dispersed in air may ignite.

## Hazardous Combustion Products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Sulfur oxides, Sodium oxides.

### 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.

### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

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

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation. Remove all sources of ignition. Take precautionary measures against static discharges.

## Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

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

Keep containers tightly closed in a dry, cool and well-ventilated place. Flammables area.

Technical Rules for Hazardous Substances (TRGS) 510      Class 4.1B  
Storage Class (LGK) (Germany)

### 7.3. Specific end use(s)

Use in laboratories

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Exposure limits

# SAFETY DATA SHEET

Dodecyl sulfate sodium salt

Revision Date 02-Feb-2024

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

## Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

## Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

See table for values

| Component                                   | Acute effects local (Dermal) | Acute effects systemic (Dermal) | Chronic effects local (Dermal) | Chronic effects systemic (Dermal) |
|---------------------------------------------|------------------------------|---------------------------------|--------------------------------|-----------------------------------|
| Sodium dodecyl sulphate<br>151-21-3 ( >95 ) |                              |                                 |                                | DNEL = 4060mg/kg<br>bw/day        |

| Component                                   | Acute effects local (Inhalation) | Acute effects systemic (Inhalation) | Chronic effects local (Inhalation) | Chronic effects systemic (Inhalation) |
|---------------------------------------------|----------------------------------|-------------------------------------|------------------------------------|---------------------------------------|
| Sodium dodecyl sulphate<br>151-21-3 ( >95 ) |                                  |                                     |                                    | DNEL = 285mg/m <sup>3</sup>           |

## Predicted No Effect Concentration (PNEC)

See values below.

| Component                                   | Fresh water      | Fresh water sediment            | Water Intermittent | Microorganisms in sewage treatment | Soil (Agriculture)          |
|---------------------------------------------|------------------|---------------------------------|--------------------|------------------------------------|-----------------------------|
| Sodium dodecyl sulphate<br>151-21-3 ( >95 ) | PNEC = 0.176mg/L | PNEC = 6.97mg/kg<br>sediment dw | PNEC = 0.055mg/L   | PNEC = 1.35mg/L                    | PNEC = 1.29mg/kg<br>soil dw |

| Component                                   | Marine water         | Marine water sediment               | Marine water intermittent | Food chain | Air |
|---------------------------------------------|----------------------|-------------------------------------|---------------------------|------------|-----|
| Sodium dodecyl sulphate<br>151-21-3 ( >95 ) | PNEC =<br>0.0176mg/L | PNEC =<br>0.697mg/kg<br>sediment dw |                           |            |     |

## 8.2. Exposure controls

### Engineering Measures

Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

### Personal protective equipment

#### Eye Protection

Goggles (European standard - EN 166)

#### Hand Protection

Protective gloves

| Glove material | Breakthrough time | Glove thickness | EU standard       | Glove comments                                                                 |
|----------------|-------------------|-----------------|-------------------|--------------------------------------------------------------------------------|
| Nitrile rubber | > 480 minutes     | 0.4mm           | EN 374<br>Level 6 | As tested under EN374-3 Determination of Resistance to Permeation by Chemicals |

#### Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure. Apron. Boots. Chemical protection suit (EN 14605).

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger

# SAFETY DATA SHEET

Dodecyl sulfate sodium salt

Revision Date 02-Feb-2024

of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

## Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly

## Large scale/emergency use

Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced  
**Recommended Filter type:** Particulates filter conforming to EN 143

## Small scale/Laboratory use

Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.  
**Recommended half mask:-** Particle filtering: EN149:2001  
When RPE is used a face piece Fit Test should be conducted

## Environmental exposure controls

Prevent product from entering drains. Do not allow material to contaminate ground water system.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

|                                         |                          |                                   |
|-----------------------------------------|--------------------------|-----------------------------------|
| Physical State                          | Solid Powder             |                                   |
| Appearance                              | Off-white                |                                   |
| Odor                                    | Odorless                 |                                   |
| Odor Threshold                          | No data available        |                                   |
| Melting Point/Range                     | 206 °C / 402.8 °F        |                                   |
| Softening Point                         | No data available        |                                   |
| Boiling Point/Range                     | approx 216 °C            |                                   |
| Flammability (liquid)                   | Not applicable           | Solid                             |
| Flammability (solid,gas)                | No information available |                                   |
| Explosion Limits                        | No data available        |                                   |
| Flash Point                             | 170 °C / 338 °F          | Method - No information available |
| Autoignition Temperature                | 310.5 °C / 590.9 °F      |                                   |
| Decomposition Temperature               | > 216°C                  |                                   |
| pH                                      | 8.5-10                   | 1% aq.sol                         |
| Viscosity                               | Not applicable           | Solid                             |
| Water Solubility                        | Soluble                  |                                   |
| Solubility in other solvents            | No information available |                                   |
| Partition Coefficient (n-octanol/water) |                          |                                   |
| Component                               | log Pow                  |                                   |
| Sodium dodecyl sulphate                 | -2.03                    |                                   |
| Vapor Pressure                          | 0.18 Pa @ 20 °C          |                                   |
| Density / Specific Gravity              | No data available        |                                   |
| Bulk Density                            | 200 - 300 g/L            |                                   |
| Vapor Density                           | Not applicable           | Solid                             |
| Particle characteristics                | No data available        |                                   |

### 9.2. Other information

|                   |                                                                                   |
|-------------------|-----------------------------------------------------------------------------------|
| Molecular Formula | C12 H25 Na O4 S                                                                   |
| Molecular Weight  | 288.38                                                                            |
| Flammable solids  | Burning rate or burning time = > 2.2 mm/s or < 45 secs<br>Wetted zone passed - No |
| Evaporation Rate  | Not applicable - Solid                                                            |

## SECTION 10: STABILITY AND REACTIVITY

# SAFETY DATA SHEET

Dodecyl sulfate sodium salt

Revision Date 02-Feb-2024

## 10.1. Reactivity

No

## 10.2. Chemical stability

Hygroscopic.

## 10.3. Possibility of hazardous reactions

### Hazardous Polymerization Hazardous Reactions

Hazardous polymerization does not occur.  
None under normal processing.

## 10.4. Conditions to avoid

Excess heat. Incompatible products. Avoid dust formation. Exposure to moist air or water.

## 10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

## 10.6. Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Sulfur oxides. Sodium oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Product Information

##### (a) acute toxicity;

Oral

Category 4

Dermal

Based on available data, the classification criteria are not met

Inhalation

Category 4

| Component               | LD50 Oral                 | LD50 Dermal  | LC50 Inhalation                    |
|-------------------------|---------------------------|--------------|------------------------------------|
| Sodium dodecyl sulphate | LD50 = 1288 mg/kg ( Rat ) | > 2000 mg/kg | 3900 mg/m <sup>3</sup> ( Rat ) 1 h |

##### (b) skin corrosion/irritation;

Test method

Category 2

Test species

OECD 404

Observational endpoint

rabbit

Irritating to skin

##### (c) serious eye damage/irritation;

Test method

Category 1

Test species

OECD 405

Observation end point

rabbit

Severe eye irritant irreversible

##### (d) respiratory or skin sensitization;

Respiratory

Based on available data, the classification criteria are not met

Skin

Based on available data, the classification criteria are not met

##### (e) germ cell mutagenicity;

Based on available data, the classification criteria are not met

| Component                                   | Test method                                         | Test species | Study result |
|---------------------------------------------|-----------------------------------------------------|--------------|--------------|
| Sodium dodecyl sulphate<br>151-21-3 ( >95 ) | OECD Test Guideline 471<br>AMES test                | Bacteria     | negative     |
|                                             | OECD Test Guideline 474<br>Mouse micronucleus assay | mouse        | negative     |

# SAFETY DATA SHEET

Dodecyl sulfate sodium salt

Revision Date 02-Feb-2024

|                                            |                                                                                                                               |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| (f) carcinogenicity;                       | Based on available data, the classification criteria are not met<br>There are no known carcinogenic chemicals in this product |
| (g) reproductive toxicity;                 | Based on available data, the classification criteria are not met                                                              |
| (h) STOT-single exposure;                  | Category 3                                                                                                                    |
| Results / Target organs                    | Respiratory system.                                                                                                           |
| (i) STOT-repeated exposure;                | Based on available data, the classification criteria are not met                                                              |
| Target Organs                              | None known.                                                                                                                   |
| (j) aspiration hazard;                     | Not applicable<br>Solid                                                                                                       |
| Symptoms / effects, both acute and delayed | No information available.                                                                                                     |

## 11.2. Information on other hazards

|                                 |                                                                                                                                     |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Endocrine Disrupting Properties | Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors. |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### Ecotoxicity effects

The product contains following substances which are hazardous for the environment.  
Contains a substance which is: Toxic to aquatic organisms.

| Component               | Freshwater Fish                                    | Water Flea                            | Freshwater Algae                                                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sodium dodecyl sulphate | LC50 > 10-100 mg/l, Pimephales promelas (OECD 203) | EC50: = 1.8 mg/L, 48h (Daphnia magna) | EC50: 3.59 - 15.6 mg/L, 96h static (Pseudokirchneriella subcapitata)<br>EC50: = 117 mg/L, 96h (Pseudokirchneriella subcapitata)<br>EC50: 30 - 100 mg/L, 96h (Desmodesmus subspicatus)<br>EC50: = 53 mg/L, 72h (Desmodesmus subspicatus) |

| Component               | Microtox                                                                                                                                                      | M-Factor |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Sodium dodecyl sulphate | EC50 = 0.46 mg/L Photobacterium phosphoreum 30 min<br>EC50 = 0.72 mg/L Photobacterium phosphoreum 15 min<br>EC50 = 1.19 mg/L Photobacterium phosphoreum 5 min |          |

### 12.2. Persistence and degradability

#### Persistence

#### Degradation in sewage treatment plant

Expected to be biodegradable

Persistence is unlikely.

Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.

### 12.3. Bioaccumulative potential

Bioaccumulation is unlikely

| Component | log Pow | Bioconcentration factor (BCF) |
|-----------|---------|-------------------------------|
|-----------|---------|-------------------------------|

# SAFETY DATA SHEET

Dodecyl sulfate sodium salt

Revision Date 02-Feb-2024

|                         |       |     |
|-------------------------|-------|-----|
| Sodium dodecyl sulphate | -2.03 | 1.6 |
|-------------------------|-------|-----|

## 12.4. Mobility in soil

The product is water soluble, and may spread in water systems . Will likely be mobile in the environment due to its water solubility. Highly mobile in soils

## 12.5. Results of PBT and vPvB assessment

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB).

## 12.6. Endocrine disrupting properties

### Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

## 12.7. Other adverse effects

### Persistent Organic Pollutant Ozone Depletion Potential

This product does not contain any known or suspected substance  
This product does not contain any known or suspected substance

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### Waste from Residues/Unused Products

Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

#### Contaminated Packaging

Dispose of this container to hazardous or special waste collection point. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and empty container away from heat and sources of ignition.

#### European Waste Catalogue (EWC)

According to the European Waste Catalog, Waste Codes are not product specific, but application specific.

#### Other Information

Do not flush to sewer. Waste codes should be assigned by the user based on the application for which the product was used. Can be landfilled or incinerated, when in compliance with local regulations. Do not empty into drains. Do not let this chemical enter the environment.

## SECTION 14: TRANSPORT INFORMATION

### IMDG/IMO

#### 14.1. UN number

UN1325

#### 14.2. UN proper shipping name

Flammable solid, organic, n.o.s.

#### Technical Shipping Name

Sodium dodecyl sulfate

#### 14.3. Transport hazard class(es)

4.1

#### 14.4. Packing group

III

### ADR

#### 14.1. UN number

UN1325

#### 14.2. UN proper shipping name

Flammable solid, organic, n.o.s.

#### Technical Shipping Name

Sodium dodecyl sulfate

#### 14.3. Transport hazard class(es)

4.1

#### 14.4. Packing group

III

### IATA

# SAFETY DATA SHEET

Dodecyl sulfate sodium salt

Revision Date 02-Feb-2024

|                                         |                                  |
|-----------------------------------------|----------------------------------|
| <b>14.1. UN number</b>                  | UN1325                           |
| <b>14.2. UN proper shipping name</b>    | Flammable solid, organic, n.o.s. |
| <b>Technical Shipping Name</b>          | Sodium dodecyl sulfate           |
| <b>14.3. Transport hazard class(es)</b> | 4.1                              |
| <b>14.4. Packing group</b>              | III                              |

|                                                                      |                                  |
|----------------------------------------------------------------------|----------------------------------|
| <b>14.5. Environmental hazards</b>                                   | No hazards identified            |
| <b>14.6. Special precautions for user</b>                            | No special precautions required. |
| <b>14.7. Maritime transport in bulk according to IMO instruments</b> | Not applicable, packaged goods   |

## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Inventories

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

| Component               | CAS No   | EINECS    | ELINCS | NLP | IECSC | TCSI | KECL     | ENCS | ISHL |
|-------------------------|----------|-----------|--------|-----|-------|------|----------|------|------|
| Sodium dodecyl sulphate | 151-21-3 | 205-788-1 | -      | -   | X     | X    | KE-21884 | X    | X    |

| Component               | CAS No   | TSCA | TSCA Inventory notification - Active-Inactive | DSL | NDSL | AICS | NZIoC | PICCS |
|-------------------------|----------|------|-----------------------------------------------|-----|------|------|-------|-------|
| Sodium dodecyl sulphate | 151-21-3 | X    | ACTIVE                                        | X   | -    | X    | X     | X     |

**Legend:** X - Listed '-' - Not Listed

**KECL** - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

### Authorisation/Restrictions according to EU REACH

| Component               | CAS No   | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|-------------------------|----------|---------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Sodium dodecyl sulphate | 151-21-3 | -                                                                   | Use restricted. See item 40.<br>(see link for restriction details)            | -                                                                                                     |

#### REACH links

<https://echa.europa.eu/substances-restricted-under-reach>

### Seveso III Directive (2012/18/EC)

| Component               | CAS No   | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements |
|-------------------------|----------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Sodium dodecyl sulphate | 151-21-3 | Not applicable                                                                            | Not applicable                                                                           |

**Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals**

Not applicable

**Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?**

Not applicable

# SAFETY DATA SHEET

Dodecyl sulfate sodium salt

Revision Date 02-Feb-2024

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

## National Regulations

**UK** - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

**WGK Classification** See table for values

| Component               | Germany - Water Classification (AwSV) | Germany - TA-Luft Class |
|-------------------------|---------------------------------------|-------------------------|
| Sodium dodecyl sulphate | WGK2                                  |                         |

| Component                                   | Switzerland - Ordinance on the Reduction of Risk from handling of hazardous substances preparation (SR 814.81) | Switzerland - Ordinance on Incentive Taxes on Volatile Organic Compounds (OVOC) | Switzerland - Ordinance of the Rotterdam Convention on the Prior Informed Consent Procedure |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Sodium dodecyl sulphate<br>151-21-3 ( >95 ) | Prohibited and Restricted Substances                                                                           |                                                                                 |                                                                                             |

## 15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

## SECTION 16: OTHER INFORMATION

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

H228 - Flammable solid  
H302 - Harmful if swallowed  
H332 - Harmful if inhaled  
H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H335 - May cause respiratory irritation  
H412 - Harmful to aquatic life with long lasting effects

### Legend

**CAS** - Chemical Abstracts Service

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**IECSC** - Chinese Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japanese Existing and New Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

**WEL** - Workplace Exposure Limit

**ACGIH** - American Conference of Governmental Industrial Hygienists

**DNEL** - Derived No Effect Level

**RPE** - Respiratory Protective Equipment

**LC50** - Lethal Concentration 50%

**NOEC** - No Observed Effect Concentration

**PBT** - Persistent, Bioaccumulative, Toxic

**TWA** - Time Weighted Average

**IARC** - International Agency for Research on Cancer  
Predicted No Effect Concentration (PNEC)

**LD50** - Lethal Dose 50%

**EC50** - Effective Concentration 50%

**POW** - Partition coefficient Octanol:Water

**vPvB** - very Persistent, very Bioaccumulative

**ADR** - European Agreement Concerning the International Carriage of Dangerous Goods by Road

**IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code

**OECD** - Organisation for Economic Co-operation and Development

**ICAO/IATA** - International Civil Aviation Organization/International Air Transport Association

**MARPOL** - International Convention for the Prevention of Pollution from Ships

**ATE** - Acute Toxicity Estimate

# SAFETY DATA SHEET

Dodecyl sulfate sodium salt

Revision Date 02-Feb-2024

BCF - Bioconcentration factor

VOC - (Volatile Organic Compound)

## Key literature references and sources for data

<https://echa.europa.eu/information-on-chemicals>

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

## Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

|                  |                 |
|------------------|-----------------|
| Creation Date    | 24-Nov-2010     |
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| Revision Summary | Not applicable. |

**This safety data sheet complies with Regulation UK SI 2019/758 and UK SI 2020/1577 as amended.**

## Disclaimer

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**End of Safety Data Sheet**