

**SECTION 1 – IDENTIFICATION**

**Product Identifier:** 10% (w/v) Sodium Dodecyl Sulfate (SDS) Solution  
Biotechnology Grade

**Catalogue Number:** 2051

**Recommended use of the chemical and restrictions on use:**  
Suitable for SDS-based electrophoresis and solubilizing cell membranes.  
For R&D use only. Not for pharmaceutical, household or other uses.

**Supplier Information:**

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Singapore 618305  
Tel: +65 6775 7318  
Email: [custcare@axilscientific.com](mailto:custcare@axilscientific.com)

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**Emergency phone number:**

Monday – Friday, 8:00 a.m. to 6:00 p.m.  
+65 6775 7318 (Singapore)  
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**SECTION 2 – HAZARDS IDENTIFICATION**

**GHS Classification:**

Skin irritation, Category 2  
Serious eye damage, Category 1

**GHS Hazard Pictogram(s):**



**Signal Word:** Danger

**Hazards statements:**

H315: Causes skin irritation.  
H318: Causes serious eye damage.

**Precautionary statements:**

*Prevention:*

P264: Wash skin thoroughly after handling.  
P280: Wear protective gloves.

*Response*

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.  
P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.  
P332 + P313: If skin irritation occurs: Get medical advice/ attention.  
P362 + P364: Take off contaminated clothing and wash before reuse.

### SECTION 3 – COMPOSITION/ INFORMATION ON INGREDIENTS

**Chemical Identity:** Sodium Dodecyl Sulfate  
**Synonyms:** Sodium Lauryl Sulfate  
Lauryl sulfate sodium salt  
SDS  
**Molecular Formula:**  $C_{12}H_{25}OSO_3Na$   
**Molecular Weight:** 288.38 g/mol

Component	Classification	Concentration
<b>Sodium Dodecyl Sulfate</b>		
CAS-No. 151-21-3 EC-No. 205-788-1	Flam. Sol. 2; Acute Tox. 4; 2; 1; STOT SE 3; H228, H302, H332, H315, H318, H335 Concentration limits: 10 - < 20 %: Eye Irrit. 2, H319; ≥ 20 %: Eye Dam. 1, H318	≤ 10 %

### SECTION 4 – FIRST-AID MEASURES

#### Eye Contact

Immediately flush eyes with copious amounts of water for at least 15 minutes. Immediately call in ophthalmologist.

#### Skin Contact

Immediately wash skin thoroughly with soap and copious amounts of water. Consult a physician.

#### Inhalation

Remove to fresh air. If not breathing, give artificial respiration or if breathing is difficult, give oxygen. Consult a physician.

#### Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

Sodium 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.

#### Indication of immediate medical attention and special treatment needed

Data not available.

### SECTION 5 – FIRE-FIGHTING MEASURES

#### Extinguishing Media

Use water spray, dry chemical powder, carbon dioxide or alcohol-resistant foam.

**Special Exposure Hazards**

Carbon oxides, Sulphur oxides, Sodium oxides

**Special Fire-fighting Procedures**

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

**Further Information**

Data not available.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES****Personal Precautions**

Prevent skin/eye contact. Evacuate personnel to safe areas. Avoid breathing vapour, mist or gas.

**Environmental Precautions**

Do not allow material into sewers and drainage systems.

**Methods for Cleaning Up**

Clean up spills immediately, observing precautions in the safety data sheet and label. Minimize dust generation. Dispose into a chemical waste container.

**SECTION 7 – HANDLING AND STORAGE****Precautions for safe handling**

Avoid contact with skin and eyes. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Follow all SDS/ label precautions. Avoid contact with skin and eyes.

**Conditions for safe storage, including any incompatibilities**

Store in tightly closed container in a cool, dry and well-ventilated area.

**SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION****Occupational Exposure Limits**

We are not aware of any national exposure limit.

**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice.

**Eye/ Face Protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin/ Hand Protection**

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.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm  
Break through time: 480 min

Splash contact  
Material: Nitrile rubber  
Minimum layer thickness: 0.11 mm  
Break through time: 480 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### Body protection

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.

### Respiratory Protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

a)	<b>Appearance</b>	Clear colorless liquid
b)	<b>Odour</b>	Not available
c)	<b>Odour Threshold</b>	Not available
d)	<b>pH (10g/l @ 20°C)</b>	Not available
e)	<b>Melting/freezing point</b>	Not available
f)	<b>Initial boiling point and boiling range</b>	Not available
g)	<b>Flash point</b>	Not available
h)	<b>Evaporation rate</b>	Not available
i)	<b>Flammability (solid, gas)</b>	Not available
j)	<b>Upper/lower flammability or explosive limits</b>	Not available
k)	<b>Vapour pressure</b>	Not available

l)	<b>Vapour density</b>	Not available
m)	<b>Relative density</b>	1.03 g/mL @ 20°C
n)	<b>Water solubility</b>	Not available
o)	<b>Partition coefficient: n-octanol/water</b>	Not available
p)	<b>Autoignition temperature</b>	Not available
q)	<b>Decomposition temperature</b>	Not available
r)	<b>Viscosity</b>	Not available

## SECTION 10 – STABILITY AND REACTIVITY

### Reactivity

Data not available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Data not available.

### Conditions to avoid

Heat, flames, ignition sources and incompatibles.

### Incompatible material

Strong oxidizing agents.

### Hazardous decomposition products

Data not available.

## SECTION 11 – TOXICOLOGICAL INFORMATION

### Acute toxicity

Data not available.

### Skin corrosion/irritation

Data not available.

### Serious eye damage/eye irritation

Data not available.

### Respiratory or skin sensitization

Data not available.

### Germ cell mutagenicity

Data not available.

**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**

Data not available.

**Specific target organ toxicity – single exposure**

Data not available.

**Specific target organ toxicity – repeated exposure**

Data not available.

**Aspiration hazard**

Data not available.

**Other information**

RTECS: Not available

**SECTION 12 – ECOLOGICAL INFORMATION**

**Toxicity**

Data not available.

**Persistence and degradability**

Data not available.

**Bioaccumulative potential**

Data not available.

**Mobility in soil**

Data not available.

**Other adverse effect**

Harmful to aquatic life.

**SECTION 13 – DISPOSAL CONSIDERATIONS**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose off as unused product.

**SECTION 14 – TRANSPORT INFORMATION**

**UN Number**

ADR/RID: -

IMDG: -

IATA-DGR: -

**UN Proper Shipping Name:**

**Transport Hazard Class(es)**

IATA-DGR: -

## IATA-DGR: -

## IATA-DGR: no

Data not available.

Data not available.

**Date of Revision:** FEBRUARY 23, 2022

*The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. Axil Scientific Pte Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.*