

## Safety data sheet

### according to UK REACH (SI 2020/1577) as amended

Printing date 16.04.2025

Version number 3 (replaces version 2)

Revision: 16.04.2025

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### · 1.1 Product identifier

· **Trade name:** SDS Powder

· **Product Code:** 30-33-10, 30-33-50, 30-33-60

· **CAS Number:**  
151-21-3

· **EC number:**  
205-788-1

· **Registration number** Mixture

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**

· **Product category** PC21 Laboratory chemicals

· **Application of the substance / the mixture** Laboratory reagent

· **Uses advised against**

Processes involving extreme heat use advised against.

Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE).

Any use involving significant release of aerosol, vapour or dust in the breathing zone of workers where they are exposed without suitable respiratory protective equipment (RPE).

· **1.3 Details of the supplier of the safety data sheet**

· **Supplier:**

Severn Biotech Ltd.

Unit 2,

Park Lane,

Kidderminster,

Worcestershire.

DY11 6TJ

UK

Tel: 0044 1562 825286

Fax: 0044 1562 825284

email: info@severnbiotech.com

· **Further information obtainable from:** Product safety department.

· **1.4 Emergency telephone number:**

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

## SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to GB-CLP**

Acute Tox. 4      H302 Harmful if swallowed.

Skin Irrit. 2      H315 Causes skin irritation.

Eye Dam. 1      H318 Causes serious eye damage.

Aquatic Chronic 3      H412 Harmful to aquatic life with long lasting effects.

· **2.2 Label elements**

· **Labelling according to GB-CLP** The substance is classified and labelled according to the GB CLP regulation.

(Contd. on page 2)

## Safety data sheet

### according to UK REACH (SI 2020/1577) as amended

Printing date 16.04.2025

Version number 3 (replaces version 2)

Revision: 16.04.2025

**Trade name: SDS Powder**

(Contd. of page 1)

#### · Hazard pictograms



GHS05    GHS07

#### · Signal word Danger

#### · Hazard-determining components of labelling:

Sodium dodecyl sulphate

#### · Hazard statements

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

#### · Precautionary statements

P280 Wear protective gloves / eye protection / face protection.

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/doctor.

P330 Rinse mouth.

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with local regulations.

#### · 2.3 Other hazards

#### · Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

#### · 3.1 Substances

#### · CAS No. Description

CAS: 151-21-3 Sodium dodecyl sulphate

#### · Identification number(s)

· **EC number:** 205-788-1

### SECTION 4: First aid measures

#### · 4.1 Description of first aid measures

#### · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

#### · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

#### · After eye contact:

Check for and remove any contact lenses.

Rinse opened eye for several minutes under running water. Then consult a doctor.

(Contd. on page 3)

## Safety data sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 16.04.2025

Version number 3 (replaces version 2)

Revision: 16.04.2025

**Trade name: SDS Powder**

(Contd. of page 2)

- **After swallowing:**
  - Rinse out mouth and then drink plenty of water.
  - Do not induce vomiting; call for medical help immediately.
  - If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
- **Information for doctor:** Treat symptomatically and supportively.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
  - No further relevant information available.

### \* SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
  - Carbon dioxide
  - Water spray
  - Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
  - As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.
  - Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
  - In case of fire, the following can be released:
    - Carbon monoxide and carbon dioxide
    - Sulphur Oxides (SO<sub>x</sub>)
- **5.3 Advice for firefighters**
- **Protective equipment:**
  - Wear self-contained respiratory protective device.
  - Do not inhale explosion gases or combustion gases.
  - Wear fully protective suit.
- **Additional information**
  - Cool endangered receptacles with water spray.
  - Collect contaminated fire fighting water separately. It must not enter the sewage system.

### \* SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - Ensure adequate ventilation
  - Avoid formation of dust.
  - Keep ignition sources away - no smoking.
  - Mount respiratory protective device.
  - Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
  - Do not allow to penetrate the ground/soil.
  - Do not allow product to reach sewage system or any water course in the undiluted form.
  - Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
  - Pick up mechanically.
  - Send for recovery or disposal in suitable receptacles.
  - Ensure adequate ventilation.
- **6.4 Reference to other sections**
  - See Section 7 for information on safe handling.

(Contd. on page 4)

## Safety data sheet

### according to UK REACH (SI 2020/1577) as amended

Printing date 16.04.2025

Version number 3 (replaces version 2)

Revision: 16.04.2025

**Trade name: SDS Powder**

(Contd. of page 3)

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## \* SECTION 7: Handling and storage

### · 7.1 Precautions for safe handling

Avoid direct contact (skin/eye contact, ingestion and/or inhalation of fume/mist/dust) with the product in the undiluted form.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Safety showers and eye wash facilities should be available at the work area.

### · Information about fire - and explosion protection:

There is a risk of a dust explosion if the following conditions are met:

- The substance is present in very finely distributed form (powder, dust).

- The substance is whirled up in sufficient quantity in the air.

- An ignition source is present (flame, spark, electrostatic discharge, etc.)

Keep respiratory protective device available.

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

#### · Storage:

**Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.

**Information about storage in one common storage facility:**

Store away from oxidising agents.

Store away from foodstuffs.

**Further information about storage conditions:**

Protect from humidity and water.

Maximum storage temperature: 30 °C

Store in cool, dry conditions in well sealed receptacles.

**Storage class:** 11

**7.3 Specific end use(s)** No further relevant information available.

## \* SECTION 8: Exposure controls/personal protection

### · 8.1 Control parameters

**Ingredients with limit values that require monitoring at the workplace:** Not required.

#### · DNELs

##### CAS: 151-21-3 Sodium dodecyl sulphate

Oral	Long-term systemic effects	24 mg/kg bw/day (general population)
Dermal	Long-term systemic effects	2,440 mg/kg bw/day (general population)
		4,060 mg/kg bw/day (worker)
Inhalative	Long-term systemic effects	85 mg/m <sup>3</sup> (general population)
		285 mg/m <sup>3</sup> (worker)

#### · PNECs

##### CAS: 151-21-3 Sodium dodecyl sulphate

Freshwater	176 µg/L
Freshwater - Intermittent releases	55 µg/L
Marine water	17.6 µg/L

(Contd. on page 5)

## Safety data sheet

### according to UK REACH (SI 2020/1577) as amended

Printing date 16.04.2025

Version number 3 (replaces version 2)

Revision: 16.04.2025

**Trade name: SDS Powder**

(Contd. of page 4)

Sewage Treatment Plant	1.35 mg/L
Sediment (freshwater)	6.97 mg/kg
Sediment (marine water)	697 µg/kg
Soil	1.29 mg/kg

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Do not breathe dust

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Ensure that eyewash stations and safety showers are close to the workstation location.

· **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

· **Hand protection**



Protective gloves.

Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

Break-through time: > 480 minutes

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection**



Tightly sealed goggles conforming to EN166.

· **Body protection:**



Protective work clothing

Body protection must be chosen depending on product properties, activity and possible exposure.

(Contd. on page 6)

## Safety data sheet

### according to UK REACH (SI 2020/1577) as amended

Printing date 16.04.2025

Version number 3 (replaces version 2)

Revision: 16.04.2025

**Trade name: SDS Powder**

(Contd. of page 5)

- **Environmental exposure controls** Do not allow to enter drains, sewers or watercourses.
- **Risk management measures** The operators shall be instructed adequately.

## \* SECTION 9: Physical and chemical properties

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

#### · General Information

· Physical state	Solid
· Colour:	Cream coloured
· Odour:	Odourless
· Odour threshold:	Not determined.
· Melting point/freezing point:	205 °C
· Boiling point or initial boiling point and boiling range	216 °C (CAS: 151-21-3 Sodium dodecyl sulphate)
· Flammability	Product is not flammable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	170 °C
· Auto-ignition temperature:	> 300 °C (CAS: 151-21-3 Sodium dodecyl sulphate)
· Decomposition temperature:	Not determined.
· pH	9.1 (1%)
· Viscosity:	
· Kinematic viscosity	Not applicable.
· Dynamic:	Not applicable.
· Solubility	
· water at 20 °C:	>130 g/l
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	< 0.2 hPa (CAS: 151-21-3 Sodium dodecyl sulphate)
· Density and/or relative density	
· Density at 20 °C:	0.63 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not applicable.

### · 9.2 Other information

NOTE: The physical data presented above are typical values and should not be construed as a specification.

· Appearance:	
· Form:	Granulate
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Not determined.
· Explosive properties:	Product does not present an explosion hazard.
· Solids content:	100.0 %
· Molecular weight	289.43 g/mol
· Change in condition	
· Evaporation rate	Not applicable.

### · Information with regard to physical hazard classes

· Explosives	Not applicable
· Flammable gases	Not applicable
· Aerosols	Not applicable
· Oxidising gases	Not applicable
· Gases under pressure	Not applicable

(Contd. on page 7)

## Safety data sheet

### according to UK REACH (SI 2020/1577) as amended

Printing date 16.04.2025

Version number 3 (replaces version 2)

Revision: 16.04.2025

**Trade name: SDS Powder**

(Contd. of page 6)

· <b>Flammable liquids</b>	Not applicable
· <b>Flammable solids</b>	Not applicable
· <b>Self-reactive substances and mixtures</b>	Not applicable
· <b>Pyrophoric liquids</b>	Not applicable
· <b>Pyrophoric solids</b>	Not applicable
· <b>Self-heating substances and mixtures</b>	Not applicable
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Not applicable
· <b>Oxidising liquids</b>	Not applicable
· <b>Oxidising solids</b>	Not applicable
· <b>Organic peroxides</b>	Not applicable
· <b>Corrosive to metals</b>	Not applicable
· <b>Desensitised explosives</b>	Not applicable

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
There is a risk of a dust explosion if the following conditions are met:
  - The substance is given in very finely distributed form (powder, dust).
  - The substance is whirled up in sufficient quantity in the air.
  - An ignition source is present (flame, spark, electrostatic discharge, etc.)
 Decomposes on heating, producing toxic fumes.
- **10.3 Possibility of hazardous reactions**  
Reacts with acids.  
Reacts with oxidising agents.
- **10.4 Conditions to avoid** Heat and static discharge.
- **10.5 Incompatible materials:** Strong acids and oxidising agents
- **10.6 Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Sulphur oxides (SO<sub>x</sub>)

## \* SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Harmful if swallowed.

### · **LD/LC50 values relevant for classification:**

#### ATE (Acute Toxicity Estimates)

Oral	LD50	1,200 mg/kg (rat)
------	------	-------------------

#### CAS: 151-21-3 Sodium dodecyl sulphate

Oral	LD50	1,200 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rabbit)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

(Contd. on page 8)

## Safety data sheet

### according to UK REACH (SI 2020/1577) as amended

Printing date 16.04.2025

Version number 3 (replaces version 2)

Revision: 16.04.2025

**Trade name: SDS Powder**

(Contd. of page 7)

- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Subacute to chronic toxicity:** Prolonged or repeated skin contact may irritate and cause dermatitis.
- **Additional toxicological information:**  
 ROUTES OF EXPOSURE: Can be absorbed into the body by ingestion, by inhalation (mist and vapour) and through the skin.  
 INHALATION RISK: A harmful concentration of airborne particles can be reached quickly especially if powdered.
- **11.2 Information on other hazards**

· <b>Endocrine disrupting properties</b>
--

Substance is not listed.
--------------------------

## SECTION 12: Ecological information

· **12.1 Toxicity**

· <b>Aquatic toxicity:</b>
----------------------------

<b>CAS: 151-21-3 Sodium dodecyl sulphate</b>
--

EC50 (72 h) 53 – 120 mg/l (aquatic algae and cyanobacteria)
---

- **12.2 Persistence and degradability** Readily biodegradable
- **12.3 Bioaccumulative potential** Product is not expected to bioaccumulate.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**  
 Harmful to aquatic organisms  
 Must not reach sewage water or drainage ditch undiluted or unneutralised.  
 Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water  
 Do not allow product to reach ground water, water course or sewage system.  
 Danger to drinking water if even small quantities leak into the ground.

## \* SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
 Recommended Hierarchy of Controls:
  - Minimise waste;
  - Reuse if not contaminated;
  - Recycle, if possible; or
  - Safe disposal (if all else fails).
 Must not be disposed together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 9)



## Safety data sheet

### according to UK REACH (SI 2020/1577) as amended

Printing date 16.04.2025

Version number 3 (replaces version 2)

Revision: 16.04.2025

**Trade name: SDS Powder**

(Contd. of page 8)

Contact waste processors for recycling information.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

· **Uncleaned packaging:**

· **Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Disposal must be made according to official regulations.

Containers, even those that are “empty,” may contain residues that can develop flammable and/or hazardous vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR/RID/ADN, IMDG, IATA** Not applicable

· **14.2 UN proper shipping name**

· **ADR/RID/ADN, IMDG, IATA** Not applicable

· **14.3 Transport hazard class(es)**

· **ADR/RID/ADN, ADN, IMDG, IATA**

· **Class** Not applicable

· **14.4 Packing group**

· **ADR/RID/ADN, IMDG, IATA** Not applicable

· **14.5 Environmental hazards:**

· **Marine pollutant:** No

· **14.6 Special precautions for user**

Not applicable.

· **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

· **UN "Model Regulation":**

Not applicable

### SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Poisons Act**

· **Regulated explosives precursors**

Substance is not listed.

· **Regulated poisons**

Substance is not listed.

· **Reportable explosives precursors**

Substance is not listed.

· **Reportable poisons**

Substance is not listed.

(Contd. on page 10)

## Safety data sheet

### according to UK REACH (SI 2020/1577) as amended

Printing date 16.04.2025

Version number 3 (replaces version 2)

Revision: 16.04.2025

**Trade name: SDS Powder**

(Contd. of page 9)

- **Control Of Major Accident Hazards Regulations 2015 (COMAH)**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

- **Training hints**

This product should only be handled by workers who have received sufficient training in the safe handling and use of chemical products.

- **Department issuing SDS:** Product safety department.

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- **\* Data compared to the previous version altered.**