

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 04.11.2012

Revision: 04.11.2012

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

· **Product identifier**

· **Trade name:** SDS

· **Article number:** 30-33-10

· **CAS Number:**

151-21-3

· **EC number:**

205-788-1

· **Registration number** 01-2119489461-32

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

Formulation of Non-liquid Creams, high viscosity Products; Formulation of Fine Fragrances - Cleaning with Water; Formulation of Medium Viscosity Body Care Products; Formulation of body care soap; Formulation of cosmetic products involving cleaning with Organic Solvents (Varnish / Removers, Decorative Cosmetics, Spray, Lacquer, Fine Fragrance, Solar oil, solid products; Formulation of low viscosity liquids (Shampoo, hair conditioner, shower gel, foam bath); in Construction Chemicals; Manufacturing / Formulation of Fertilizers; Manufacture of aqueous polymer dispersions and dispersion powders - Use of Monomers; Manufacture of aqueous polymer dispersions and dispersion powders - Formulation of Preparations; Manufacture of aqueous polymer dispersions and dispersion powders - Use of Process Regulators for Polymerisation; Manufacture of aqueous polymer dispersions and dispersion powders - Use of Processing Aids; Manufacture of aqueous polymer dispersions and dispersion powders - Use of Intermediates; Co-formulants used in crop protection products; Industrial Use of Façade/surface Cleaning Products; Industrial use of Laundry products; Formulation of liquid Detergents/Maintenance Products: Low Viscosity; Formulation of Detergents/Maintenance Products: Granular Detergent - Regular; Industrial Use of Me-salts in conversion coating - Zinc, Chromium, Copper, Manganese; Industrial use of Laundry products; Formulation of liquid Detergents/Maintenance Products: High Viscosity; Industrial use of Water treatment Products; Industrial use of Food beverage and pharmacos products; Industrial use of Food beverage and pharmacos products; Industrial use of Vehicle cleaning products; Laboratory Use; Professional Use of Hand Cleaners; Professional Use of Dishwash products; Professional Use of Medical Devices; Professional Use of Maintenance Products; Professional Use of Floor care products; Professional Use of General surface cleaning products; Professional Use of Vehicle cleaning Products; Professional Use of Façade/surface Cleaning Products; Professional Use of Food beverage and pharmacos products; Consumer Use of Fertilizers; Consumer use of air freshener products; Consumer use of washing and cleaning products (Sprays); Consumer use of washing and cleaning products; Consumer use of polishes.

· **Sector of Use** SU0 Other

· **Product category**

PC0 Other

PC1 Adhesives, sealants

PC3 Air care products

PC9a Coatings and paints, thinners, paint removers

PC9b Fillers, putties, plasters, modelling clay

PC12 Fertilizers

PC27 Plant protection products

PC31 Polishes and wax blends

PC35 Washing and cleaning products (including solvent based products)

PC39 Cosmetics, personal care products

· **Process category**

PROC0: Other

PROC1 Use in closed process, no likelihood of exposure

PROC2 Use in closed, continuous process with occasional controlled exposure

PROC3 Use in closed batch process (synthesis or formulation)

PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises

PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)

PROC7 Industrial spraying

PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

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PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC10 Roller application or brushing

PROC11 Non industrial spraying

PROC13 Treatment of articles by dipping and pouring

PROC14 Production of preparations or articles by tableting, compression, extrusion, pelletisation

PROC15 Use as laboratory reagent

PROC17 Lubrication at high energy conditions and in partly open process

PROC19 Hand-mixing with intimate contact and only PPE available

PROC24 High (mechanical) energy work-up of substances bound in materials and/or articles

· **Environmental release category**

ERC1 Manufacture of substances

ERC2 Formulation of preparations

ERC4 Industrial use of processing aids in processes and products, not becoming part of articles

ERC5 Industrial use resulting in inclusion into or onto a matrix

ERC6a Industrial use resulting in manufacture of another substance (use of intermediates)

ERC6b Industrial use of reactive processing aids

ERC6c Industrial use of monomers for manufacture of thermo-plastics

ERC6d Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers

ERC8a Wide dispersive indoor use of processing aids in open systems

ERC8b Wide dispersive indoor use of reactive substances in open systems

ERC8c Wide dispersive indoor use resulting in inclusion into or onto a matrix

ERC8d Wide dispersive outdoor use of processing aids in open systems

ERC8e Wide dispersive outdoor use of reactive substances in open systems

ERC8f Wide dispersive outdoor use resulting in inclusion into or onto a matrix

ERC9b Wide dispersive outdoor use of substances in closed systems

ERC10a Wide dispersive outdoor use of long-life articles and materials with low release

ERC10b Wide dispersive outdoor use of long-life articles and materials with high or intended release (including abrasive processing)

ERC11a Wide dispersive indoor use of long-life articles and materials with low release

ERC11b Wide dispersive indoor use of long-life articles and materials with high or intended release (including abrasive processing)

· **Article category AC13** Plastic articles

· **Application of the substance / the preparation**

Laboratory chemical.

Surfactant.

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

· **Manufacturer/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.

· **Emergency telephone number:** Tel: 0044 1562 825286 (not 24 hours)

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### 2 Hazards identification

- Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Sol. 2 H228 Flammable solid.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful

R21/22: Harmful in contact with skin and if swallowed.



Xi; Irritant

R36/38: Irritating to eyes and skin.

- Information concerning particular hazards for human and environment: Not applicable.

- Label elements

- Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

- Hazard pictograms GHS02, GHS05, GHS07

- Signal word Danger

- Hazard statements

H228 Flammable solid.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

- Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P270 Do not eat, drink or smoke when using this product.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

- Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable.

- vPvB: Not applicable.

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### 3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**  
151-21-3 Sodium dodecyl sulphate
- **Identification number(s)**
- **EC number: 205-788-1**

### 4 First aid measures

- **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:**  
**DO NOT DELAY!**  
Check for and remove any contact lenses.  
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; call for medical help immediately.
- **Information for doctor:** Treat symptomatically and supportively.
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
Carbon dioxide  
Water spray
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**  
Combustible. Gives off irritating or toxic fumes (or gases) in a fire.  
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.
- **Advice for firefighters**
- **Protective equipment:**  
Do not inhale explosion gases or combustion gases.  
Wear self-contained respiratory protective device.  
Wear fully protective suit.

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### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

- Ensure adequate ventilation
- Wear protective equipment. Keep unprotected persons away.
- Avoid formation of dust.
- Particular danger of slipping on leaked/spilled product.
- Keep ignition sources away - no smoking.

- **Environmental precautions:**

- Do not allow to enter sewers/ surface or ground water.
- Do not allow to penetrate the ground/soil.

- **Methods and material for containment and cleaning up:**

- Pick up mechanically.
- Send for recovery or disposal in suitable receptacles.

- **Reference to other sections**

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

### 7 Handling and storage

- **Handling:**

- **Precautions for safe handling**

- Prevent formation of dust.
- Ensure good ventilation/exhaustion at the workplace.
- Safety showers and eye wash facilities should be available at the work area.
- Avoid direct contact (skin contact, ingestion and/or inhalation of fume/mist/dust) with the product.

- **Information about fire - and explosion protection:**

- Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.

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

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

- Prevent any seepage into the ground.
- Store at <30 degs. C.

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

- Store away from oxidizing agents.
- Store away from foodstuffs.

- **Further information about storage conditions:**

- Keep container tightly sealed.
- Store in a banded area.
- Store in cool, dry conditions in well sealed receptacles.
- Protect from humidity and water.

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

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Control parameters**

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

- **DNELs**

- WORKERS

- Long-term exposure - systemic effects
- Dermal DN(M)EL

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- DNEL (Derived No Effect Level): 4060 mg/kg bw/day

Inhalation DN(M)EL

- DNEL (Derived No Effect Level): 285 mg/m<sup>3</sup>

#### GENERAL POPULATION

Long-term exposure - systemic effects

Dermal DN(M)EL

- DNEL (Derived No Effect Level): 2440 mg/kg bw/day

Inhalation DN(M)EL

- DNEL (Derived No Effect Level): 85 mg/m<sup>3</sup>

Oral DN(M)EL

- DNEL (Derived No Effect Level): 24 mg/kg bw/day

#### · PNECs

PNEC aqua (freshwater): 0.137 mg/L

PNEC aqua (marine water): 0.0137 mg/L

PNEC aqua (intermittent releases): 0.055 mg/L

PNEC STP: 1084 mg/L

PNEC sediment (freshwater): 4.82 mg/kg sediment dw

PNEC sediment (marine water): 0.482 mg/kg sediment dw

PNEC soil: 0.882 mg/kg soil dw

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

#### · Exposure controls

##### · Personal protective equipment:

Select PPE appropriate for the operations taking place taking into account the product properties.

##### · General protective and hygienic measures:

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.

Do not breath dust

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

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

A safe system of work must be formulated and followed to ensure safe working with this product.

Relevant workers must receive suitable and sufficient training and supervision.

##### · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

##### · Protection of hands:



Protective gloves

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

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

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

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## · Eye protection:



Tightly sealed goggles

## · Body protection: Protective work clothing

### 9 Physical and chemical properties

## · Information on basic physical and chemical properties

## · General Information

## · Appearance:

Form:	Granulate
Colour:	Cream coloured
· Odour:	Odourless
· Odour threshold:	Not determined.

· pH-value (10 g/l) at 20 °C: 9.1

## · Change in condition

Melting point/Melting range:	205 °C
Boiling point/Boiling range:	216 °C (decomp)

· Flash point: 170 °C

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: &gt;300 °C

· Decomposition temperature: Not determined.

· Self-igniting: Not determined.

· Danger of explosion: Product is not explosive. However, formation of explosive air/dust mixtures are possible.

## · Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

· Vapour pressure at 20 °C: &lt;0.2 hPa

· Density at 20 °C:	0.63 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not applicable.

· Solubility in / Miscibility with water at 20 °C: &gt;130 g/l

· Partition coefficient (n-octanol/water): -2.03 log POW

## · Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.

· Other information: No further relevant information available.

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### 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
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.
- Decomposes on burning. This produces toxic and corrosive gases including sulphur oxides.
- **Possibility of hazardous reactions** Reacts with strong oxidants and strong acids.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Strong acids and oxidising agents
- **Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Sulphur oxides (SOx)

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

Oral	LD50	1288 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:**  
Irritant to skin and mucous membranes.  
Will defat and dry the skin.  
Frequent or prolonged contact may irritate and cause dermatitis.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Subacute to chronic toxicity:**  
Effects of long-term or repeated exposure: Repeated or prolonged contact with skin may cause dermatitis.
- **Additional toxicological information:**  
Routes of exposure: The substance can be absorbed into the body through the skin and by ingestion.

Inhalation risk: Evaporation at 20 degs .C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed, especially if powdered.

Effects of short-term exposure: The substance is irritating to the eyes, skin and respiratory tract.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** biodegradable
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** Product is not expected to bioaccumulate.
- **Mobility in soil** No further relevant information available.

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- **Additional ecological information:**
- **General notes:**
  - 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.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
  - Must not be disposed together with household garbage. Do not allow product to reach sewage system.
  - 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:**
  - Container remains hazardous when empty. Continue to observe all precautions.
  - Disposal must be made according to official regulations.

### 14 Transport information

<ul style="list-style-type: none"> <li>· UN-Number</li> <li>· ADR, IMDG, IATA</li> </ul>	UN1325
<ul style="list-style-type: none"> <li>· UN proper shipping name</li> <li>· ADR</li> <li>· IMDG, IATA</li> </ul>	1325 FLAMMABLE SOLID, ORGANIC, N.O.S. (Sodium lauryl sulphonate) FLAMMABLE SOLID, ORGANIC, N.O.S. (Sodium lauryl sulphonate)
<ul style="list-style-type: none"> <li>· Transport hazard class(es)</li> <li>· ADR, IMDG, IATA</li> </ul>	<div style="text-align: center;">  </div>
<ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	4.1 Flammable solids, self-reactive substances and solid desensitised explosives. 4.1
<ul style="list-style-type: none"> <li>· Packing group</li> <li>· ADR, IMDG, IATA</li> </ul>	III
<ul style="list-style-type: none"> <li>· Environmental hazards:</li> <li>· Marine pollutant:</li> </ul>	No
<ul style="list-style-type: none"> <li>· Special precautions for user</li> </ul>	Warning: Flammable solids, self-reactive substances and solid desensitised explosives.

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· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	5 kg
· <b>Tunnel restriction code</b>	E
· <b>UN "Model Regulation":</b>	UN1325, FLAMMABLE SOLID, ORGANIC, N.O.S. (Sodium lauryl sulphonate), 4.1, III

### 15 Regulatory information

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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.

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