

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 01.11.2012

Revision: 31.10.2012

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

· **Product identifier**

· **Trade name:** 20% SDS Solution

· **Article number:** 20-4002-10

· **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

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

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- 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**



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.
- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms** GHS05
- **Signal word** Danger
- **Hazard-determining components of labelling:**
Sodium dodecyl sulphate
- **Hazard statements**
H315 Causes skin irritation.
H318 Causes serious eye damage.
- **Precautionary statements**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P260	Do not breathe mist/vapours/spray.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**
151-21-3 Sodium dodecyl sulphate

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- **Identification number(s)**
- **EC number:** 205-788-1
- **Chemical characterization:** Mixtures
- **Description:** An aqueous solution of sodium dodecyl sulphate.

Dangerous components:

CAS: 151-21-3	Sodium dodecyl sulphate	20%
EINECS: 205-788-1	 Xn R21/22;  Xi R36/38  Flam. Sol. 2, H228;  Eye Dam. 1, H318;  Acute Tox. 4, H302; Skin Irrit. 2, H315	

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Immediately rinse with water.
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:** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture**
Gives off irritating or toxic fumes (or gases) in a fire.
- **Advice for firefighters**
- **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear self-contained respiratory protective device.
Wear fully protective suit.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
Particular danger of slipping on leaked/spilled product.
- **Environmental precautions:**
Do not allow to penetrate the ground/soil.
Do not allow to enter sewers/ surface or ground water.

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- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
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 aerosols.
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:** No special measures required.
- **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 oxidizing agents.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Protect from frost.
- **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:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **DNELs**
WORKERS
Long-term exposure - systemic effects
Dermal DN(M)EL
- DNEL (Derived No Effect Level): 4060 mg/kg bw/day

Inhalation DN(M)EL
- DNEL (Derived No Effect Level): 285 mg/m³

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/m³

Oral DN(M)EL
- DNEL (Derived No Effect Level): 24 mg/kg bw/day

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- **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:**
 Do not eat, drink, smoke or sniff while working.
 Do not inhale gases / fumes / aerosols.
 Ensure that eyewash stations and safety showers are close to the workstation location.
 Wash hands before breaks and at the end of work.
 Avoid contact with the eyes and skin.
- **Respiratory protection:** Not required.
- **Protection of hands:**
 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **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.
- **Eye protection:**
 Goggles recommended during refilling
 Safety glasses
- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Fluid
Colour:	Clear
Odour:	Odourless
Odour threshold:	Not determined.

- **pH-value:** Not determined.

- **Change in condition**

Melting point/Melting range:	>0 °C
Boiling point/Boiling range:	>100 °C

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Not applicable.

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· Ignition temperature:	
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure at 20 °C:	23 hPa
· Density at 20 °C:	1.1 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
Residues upon drying decomposes on burning. This produces toxic and corrosive gases including sulphur oxides.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **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:**
- **Primary irritant effect:**
- **on the skin:**
Irritant to skin and mucous membranes.
Will defat and dry the skin.
- **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.

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· **Additional toxicological information:**

Routes of exposure: The substance can be absorbed into the body through the skin and by ingestion.

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.

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): 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**

Contact waste processors for recycling information.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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.

14 Transport information

· **UN-Number**

· **ADR, ADN, IMDG, IATA** Void

· **UN proper shipping name**

· **ADR, ADN, IMDG, IATA** Void

· **Transport hazard class(es)**

· **ADR, ADN, IMDG, IATA**

· **Class** Void

· **Packing group**

· **ADR, IMDG, IATA** Void

· **Environmental hazards:**

· **Marine pollutant:** No

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· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	-

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.

- **Relevant phrases**

H228 Flammable solid.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

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

R36/38 Irritating to eyes and skin.

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