

Material Safety Data Sheet

Section 1 Chemical Product and Company Identification

MSDS Name: Sodium Dodecyl Sulphate
Product Code: 30-33-10, 30-33-50, 30-33-60

Synonyms: Sodium Lauryl Sulfate; Duponol; Dodecyl Sodium Sulfate; Sulfuric Acid, Monododecyl Ester, Sodium Salt Ai3-00356, Akyposal Sds
 Aquarex Me, Aquarex Methyl,
 Avirol 101, Avirol 118 Conc, Berol 452, Carsonol Sls, Carsonol Sls Paste B, Carsonol Sls
 Special, Conco Sulfate Wa, Conco Sulfate Wa-1200, Conco Sulfate Wa-1245, Conco
 Sulfate Wag, Conco Sulfate Wan, Conco Sulfate Was, Conco Sulfate Wn Cp 75424, Cycloryl
 21, Cycloryl 31, Cycloryl 580, Cycloryl 585n, Dehydag Sulfate Gl Emulsion, Dehydag
 Sulphate Gl Emulsion, Detergent 66 Dodecyl Alcohol, Hydrogen Sulfate, Sodium Salt,
 Dodecyl Sodium Sulfate, Dodecyl Sulfate Sodium, N-Dodecyl Sulfate Sodium, Dodecyl
 Sulfate, Sodium Salt, Dreft, Duponal, Duponal Waqe, Duponal, Duponal C, Duponal Me,
 Duponal Methyl, Duponal Qx, Duponal Wa, Duponal Wa Dry, Duponal Waq, Duponal Waqa,
 Duponal Waqe, Duponal Waqm , Emal O, Emal 10, Emersal 6400, Empicol Lpz, Empicol Ls 30
 Empicol Lx 28, Emulsifier No. 104, Finasol Osr(Sub 2), Gardinol, Hexamol Sls, Incronol Sls,
 Irium, Jordanol Sl-300, Lanette Wax-S, Laurylsira Sodny (Czech), Lauryl Sodium Sulfate,
 Lauryl Sulfate, Sodium Salt, Maprofix 563, Maprofix Lk, Maprofix Neu, Maprofix Wac,
 Maprofix Wac-La, Melanol Cl, Melanol Cl 30, Monododecyl Sodium Sulfate, Monogen Y 100,
 Montopol La Paste, Nci-C50191, Neutrazyme, Nikkol Sls, Odoripon Al 95, Orvus Wa Paste, P
 And G Emulsifier 104, Perlandrol L, Product No. 75, Product No. 161, Quolac Ex-Ub,
 Rewopol Nls 30, Richonol A, Richonol Af - Richonol C ,Sds, Sinnopon Ls 95, Sinnopon Ls 100,
 Sintapon L, Sipex Op, Sipex Sb, Sipex Sd, Sipex Sp, Sipex Ub, Sipon Ls, Sipon Ls 100, Sipon
 Lsb, Sipon Pd, Sipon Wd, Sls, Sodium Dodecyl Sulfate, Sodium N-Dodecyl Sulfate, Sodium
 Dodecyl Sulphate, Sodium Lauryl Sulfate, Sodium Lauryl Sulphate, Sodium Monododecyl
 Sulfate, Sodium Monolauryl Sulfate, Solsol Needles, Standapol 112 Conc, Standapol Wa-Ac,
 Standapol Waq, Standapol Waq Special, Standapol Was 100, Stepanol Nls 90, Stepanol Me,
 Stepanol Me Dry, Stepanol Me Dry Aw, Stepanol Methyl, Stepanol Methyl Dry Aw, Stepanol T
 28, Stepanol Wa, Stepanol Wa-100, Stepanol Wac, Stepanol Wa Paste, Stepano Waq,
 Sterling Wa Paste, Sterling Waq-Ch, Sterling Waq-Cosmetic, Sulfetal L 95, Sulfofon Wa 1,
 Sulfofon Wa 2, Sulfofon Wa 3, Sulfofon Wa 1 Special, Sulfotex Wa, Sulfotex Wala, Swascol
 3l, Swascol 4l, Swascol 1p, Syntapon, Syntapon L, Syntapon L Pasta (Czech), Tarapon K 12,
 Texapon Dl Conc, Texapon K12, Texapon K- 1296, Texapon L 100, Texapon V Hc, Texapon V
 Hc Powder, Texapon Zhc, Texapon Z High Conc. Needles, Trepenol Wa, Tvm 474, Ultra
 Sulfate Sl-1, Waqe, Witcolate A, Witcolate A Powder, Witcolate C.

Company identification: Severn Biotech Limited

Unit 2 Park Lane Industrial Estate
Kidderminster
Worcestershire
DY11 6TJ

For information call: +44 (0)1562 825286

Section 2 - Composition, Information on Ingredients

CAS: 151-21-3
Chemical Name: Sodium Dodecyl Sulphate
%: 99-100
EINECS: 205-788-1

Risk Phrases: F - Highly Flammable, R11, R20, R21, R22, R36, R37, R38.

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. MAY CAUSE ALLERGIC SKIN OR RESPIRATORY REACTION. FLAMMABLE SOLID.

Potential Health Effects

Eye: Causes irritation, redness, and pain.
Skin: Mildly irritating to skin, causes dryness and a rash on continued exposure. May cause allergic skin reactions.
Ingestion: Large doses may cause gastrointestinal distress, nausea and diarrhoea.
Inhalation: Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. May cause allergic reaction in sensitive individuals.
Chronic: Chronic exposure may cause skin effects. Persons with pre-existing skin disorders or impaired respiratory function may be more susceptible to the effects of the substance.

Section 4 - First Aid Measures

Eye: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
Skin: Immediately flush skin with plenty of soap and water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
Ingestion: Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.
Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Chronic: Seek medical attention immediately.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Fire: Flammable Solid!

Classified as a flammable solid according to DOT test methods.

Explosion: Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide.

Section 6 - Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

Section 7 - Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Section 8 - Exposure Controls, Personal Protection

Airborne Exposure Limits: None established.
 Ventilation System: In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.
 Personal Respirators (NIOSH Approved): For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.
 Skin Protection: Wear protective gloves and clean body-covering clothing.
 Eye Protection: Safety glasses. Maintain eye wash fountain and quick-drench facilities in work area.

Section 9 - Physical and Chemical Properties

Physical State: crystalline powder
 Colour: white to off-white
 Odour: slightly fatty
 pH: Not available
 Vapour Pressure: Not available
 Vapour Density: Not available
 Evaporation Rate: Not available
 Viscosity: Solid
 Boiling Point: Not available
 Freezing/Melting Point: 204-207oC
 Decomposition Temperature: Not available
 Solubility in water: 10g/100g water.
 Specific Gravity/Density: 0.4 @ 15oC/4oC
 Molecular Formula: C₁₂H₂₅OSO₃Na
 Molecular Weight: 288.38

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
 Conditions to Avoid: Incompatible materials, dust generation, excess heat.
 Incompatibilities with Other Materials: Strong oxidizers, acids.
 Hazardous Decomposition Products: Oxides of carbon, sulfur and sodium oxide may form when heated to decomposition.
 Hazardous Polymerization will not occur.

Section 11 - Toxicological Information

CAS: 151-21-3

LD50/LC50: Oral rat LD50: 1288 mg/kg; Inhalation rat LC50: > 3900 mg/kg; irritation data: skin human, standard Draize, 25 mg/24-hour, mild; eye rabbit, standard Draize, 250 mg, mild.

Carcinogenicity: Non-carcinogenic

Other: Investigated as a mutagen, reproductive effector.

Section 12 - Ecological Information

Environmental Toxicity:

96 Hr LC50 fathead minnow (fry): 10.2 mg/L;

96 Hr LC50 fathead minnow (juvenile): 17 mg/L;

96 Hr LC50 fathead minnow (adult): 22.5 mg/L;

96 Hr LC50 rainbow trout: 4.6 mg/L (Static).

Persistence and Degradability:

Not known to persist in biological systems.

Bioaccumulative Potential:

The production volume of SDS is ca. 10,000 t/y in Germany. SDS is used as a surfactant in detergents, dispersants, cosmetics and toiletry. SDS is classified as "readily biodegradable" with "low bioaccumulation". The most sensitive environmental species to SDS is the clam *Corbicula fluminea* (30d-NOEC = 0.65 mg/l).

Section 13 - Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to an approved incinerator or disposed in an approved waste facility. Processing, use or contamination of this product may change the waste management options. District and local disposal regulations may differ from Governmental disposal regulations. Dispose of container and unused contents in accordance with Governmental, District and local requirements.

Section 14 - Transport Information

Shipping Name: FLAMMABLE SOLIDS, ORGANIC, N.O.S. (SODIUM LAUREL SULFATE)

Hazard Class: 4.1

UN Number: UN1325

Packing Group: Packing Group: III

Section 15 - Regulatory Information

European/International Regulations

European Labelling in Accordance with EC Directives

Hazard Symbols: F - Highly flammable

Risk Phrases:

R11 Highly Flammable, R20 Harmful by inhalation, R21 Harmful in contact with skin, R22

Harmful if swallowed, R36 Irritating to eyes, R37 Irritating to respiratory system, R38

Irritating to skin.

Safety Phrases:

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice, S36 Wear suitable protective clothing, S37 Wear suitable gloves.

CAS: 151-21-3

Section 16 - Other Information

MSDS Creation Date: 04/09/2008

Revision number: 1

Revision Date: 07/08/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other

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