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Revision Number 4

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Name	Sodium Dodecyl Sulfate
Product Code(s)	0227
Recommended Use	For Further Manufacturing Use Only Not for Human or Animal Drug Use
Recommended Use	anionic detergent primarily used in protein purification

Synonyms

AI3-00356 * AKYPOSAL SDS * SQUAREX ME * SQUAREX 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 * CONCOSULFATE WAS * CONCO SULFATE WN * CYCLORYL 21 * CYCLORYL 31 * CYCLORYL580 * CYCLORYL 585N * DEHYDAG SULFATE GL EMULSION * DEHYDAG SULPHATEGL 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 * DUPONOL * DUPONOL C * DUPONOL ME * DUPONOL METHYL * DUPONOL QX * DUPONOL WA * DUPONOL WA DRY * DUPONOL WAQ * DUPONOL WAQA * DUPONOL WAQE * DUPONOL 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 * LAURYL SIRANSODNY (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 * NIKKOLSLS * 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 * STANDAPOLWA-AC * STANDAPOL WAQ * STANDAPOL WAQ SPECIAL * STANDAPOL WAS 100 * STEINAPOL 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 * STEPANOLWAQ * STERLING WA PASTE * STERLING WAQ-CH * STERLING WAQ-COSMETIC * SULFETAL L 95 * SULFOPON WA 1 * SULFOPON WA 2 * SULFOPON WA 3 * SULFOPON 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 *

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2. HAZARDS IDENTIFICATION

GHS - Classification

Classification Flammable Solid 1 Acute Toxicity Dermal 3 Acute Toxicity Oral 4 Respiratory Sensitizer 1 Skin Irritant 2 Eye Irritant 2 Aquatic Toxicity (short term) 2

Signal Word Danger



Hazard Statements H228 - Flammable solid H302 - Harmful if swallowed H311 - Toxic in contact with skin H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation H401 - Toxic to aquatic life

Precautionary Statements P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P280 - Wear protective gloves/protective clothing/eye protection/face protection P312 - Call a POISON CENTRE/doctor/physician if you feel unwell P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
Sodium Dodecyl Sulfate	EEC No. 205-788-1	Not available	151-21-3	99-100	-

4. FIRST AID MEASURES

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes

Inhalation Move to fresh air. If breathing becomes difficult, give oxygen

Ingestion Clean mouth with water and afterwards drink plenty of water

Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties Flammable solid.

Flash Point Not determined

Suitable Extinguishing Media Dry chemical, CO₂, water spray or regular foam

Hazardous Combustion Products Carbon oxides, Sulfur oxides.

Explosion Data

Sensitivity to Mechanical Impact Not sensitive

Sensitivity to Static Discharge Not sensitive

Specific Hazards Arising from the Chemical
Flammable.

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation

Methods for Containment Prevent further leakage or spillage if safe to do so

Methods for Cleaning Up Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practice

Storage Keep containers tightly closed in a dry, cool and well-ventilated place

Incompatible Products Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Dodecyl Sulfate 151-21-3			

Engineering Measures Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment

Eye/Face Protection	Safety glasses with side-shields.
Skin and Body Protection	Wear protective gloves/clothing.
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Fine white to off-white
Odor	No information available
Odor Threshold	No information available
Decomposition Temperature °C	No information available
Freezing Point	No information available
Initial Boiling Point	No information available
Physical State	Powder
pH	No data available
Flash Point	Not determined
Flammable Properties	Flammable solid.
Autoignition Temperature	No data available
Boiling Point/Range	No data available
Melting Point/Range	204-207 °C
Flammability Limits in Air	Upper No data available Lower No data available
Explosive Properties	No information available
Oxidizing Properties	No information available
Evaporation Rate	No data available
MMHG @ 37.8 C	No data available
Vapor Density	No data available
Specific Gravity	No data available
Solubility	No information available
Partition Coefficient (n-octanol/water)	No data available
Viscosity	No information available

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions
Incompatible Products	Strong oxidizing agents.
Conditions to Avoid	None known based on information supplied
Hazardous Decomposition Products	Carbon oxides. Sulfur oxides.
Hazardous Polymerization	Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information	Toxic in contact with skin. Harmful if swallowed. Sensitizer. Causes skin, eye and respiratory tract irritation.
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Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium Dodecyl Sulfate	1288 mg/kg (Rat)	580 mg/kg (Rabbit)	3900 mg/m ³ (Rat) 1 h

Chronic Toxicity

Chronic Toxicity No known effect based on information supplied

Target Organ Effects Lungs

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic organisms.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Sodium Dodecyl Sulfate	EC50 3.59 - 15.6 mg/L 96 h EC50 = 117 mg/L 96 h EC50 = 53 mg/L 72 h EC50 30 - 100 mg/L 96 h	LC50 15-18.9 mg/L Pimephales promelas 96 h LC50 4.06-5.75 mg/L Lepomis macrochirus 96 h LC50 4.2-4.8 mg/L Lepomis macrochirus 96 h LC50 6.2-9.6 mg/L Pimephales promelas 96 h LC50= 4.2 mg/L Oncorhynchus mykiss 96 h LC50 13.5-18.3 mg/L Poecilia reticulata 96 h LC50 5.8-7.5 mg/L Pimephales promelas 96 h LC50 9.9-20.1 mg/L Brachydanio rerio 96 h LC50 10.2-22.5 mg/L Pimephales promelas 96 h LC50 8-12.5 mg/L Pimephales promelas 96 h LC50= 4.5 mg/L Lepomis macrochirus 96 h LC50= 4.62 mg/L Oncorhynchus mykiss 96 h LC50 10.8-16.6 mg/L Poecilia reticulata 96 h LC50 22.1-22.8 mg/L Pimephales promelas 96 h LC50 4.3-8.5 mg/L Oncorhynchus mykiss 96 h LC50= 1.31 mg/L Cyprinus carpio 96 h LC50= 7.97 mg/L Brachydanio rerio 96 h		

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations

Contaminated Packaging Dispose of in accordance with all federal, state and local regulations

14. TRANSPORT INFORMATION

IATA

UN-No 1325
Proper Shipping Name FLAMMABLE SOLID, ORGANIC, N.O.S. (SODIUM DODECYL SULFATE)
Hazard Class 4.1
Packing Group III

DOT

Proper Shipping Name FLAMMABLE SOLID, ORGANIC, N.O.S. (SODIUM DODECYL SULFATE)
Hazard Class 4.1
UN-No 1325
Packing Group III

15. REGULATORY INFORMATION

REACH Title VII Restrictions No information available.

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on the Label	Pollution Release and Transfer Registry (Class II):	Pollution Release and Transfer Registry (Class I):	Poison and Deleterious Substances Control Law:
Sodium Dodecyl Sulfate	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Component	ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA - Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals	Toxic Release Inventory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II
Sodium Dodecyl Sulfate 151-21-3 (99-100)	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

International Inventories

TSCA Complies
EINECS/ELINCS Complies
ENCS Complies
IECSC Complies
KECL Does not Comply
PICCS Complies
AICS Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990

CERCLA

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

International Regulations

Mexico - Grade No information available.

Canada

WHMIS Hazard Class

B4 Flammable solid
D2B Toxic materials
D1B Toxic materials





16. OTHER INFORMATION

Issuing Date 27-Jul-2009

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Revision Note
No information available.

Recommended Restrictions No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS