

# DODECYLBENZENESULFONIC ACID, ISOPROPYLAMINE SALT

DAI

## CAUTIONARY RESPONSE INFORMATION

<b>Common Synonyms</b> Isopropylamine dodecylbenzenesulfonate Dodecylbenzenesulfonate sodium salt Sodium dodecylbenzene sulfonate Naccanol NR or SW Detergent HD-90	Solid                      Off-white                      Sweet petroleum  May float or sink and mix with water.
Keep people away. Avoid contact with solid. Notify local health and pollution control agencies. Protect water intakes.	
<b>Fire</b>	Combustible. Extinguish with dry chemicals, foam or carbon dioxide. Water may be ineffective on fire.
<b>Exposure</b>	CALL FOR MEDICAL AID.  SOLID Irritating to skin and eyes. If swallowed will cause nausea and vomiting. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk. IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm.
<b>Water Pollution</b>	Effect of low concentrations on aquatic life is unknown. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.

<b>1. CORRECTIVE RESPONSE ACTIONS</b> Dilute and disperse Stop discharge	<b>2. CHEMICAL DESIGNATIONS</b> 2.1 <b>CG Compatibility Group:</b> Not listed. 2.2 <b>Formula:</b> C <sub>12</sub> H <sub>25</sub> CS <sub>3</sub> HNG <sub>2</sub> CH(CH <sub>3</sub> ) <sub>2</sub> 2.3 <b>IMO/UN Designation:</b> Not listed 2.4 <b>DOT ID No.:</b> Not listed 2.5 <b>CAS Registry No.:</b> Currently not available 2.6 <b>NAERG Guide No.:</b> Not listed 2.7 <b>Standard Industrial Trade Classification:</b> 51549
<b>3. HEALTH HAZARDS</b>	
3.1 <b>Personal Protective Equipment:</b> Rubber gloves; goggles; mask (for liquid form) 3.2 <b>Symptoms Following Exposure:</b> Ingestion causes mild irritation of mouth and stomach. Contact with liquid causes irritation of eyes and (on prolonged contact) mild irritation of skin. 3.3 <b>Treatment of Exposure:</b> INGESTION: give large amount of water; consult a doctor if large amount was ingested. EYES: flush with water for at least 15 min.; consult a doctor if irritation persists. SKIN: flush with water. 3.4 <b>TLV-TWA:</b> Not listed. 3.5 <b>TLV-STEL:</b> Not listed. 3.6 <b>TLV-Ceiling:</b> Not listed. 3.7 <b>Toxicity by Ingestion:</b> Grade 2; LD <sub>50</sub> = 3.54 g/kg (rat) 3.8 <b>Toxicity by Inhalation:</b> Currently not available. 3.9 <b>Chronic Toxicity:</b> Currently not available 3.10 <b>Vapor (Gas) Irritant Characteristics:</b> Currently not available 3.11 <b>Liquid or Solid Characteristics:</b> Currently not available 3.12 <b>Odor Threshold:</b> Currently not available 3.13 <b>IDLH Value:</b> Not listed. 3.14 <b>OSHA PEL-TWA:</b> Not listed. 3.15 <b>OSHA PEL-STEL:</b> Not listed. 3.16 <b>OSHA PEL-Ceiling:</b> Not listed. 3.17 <b>EPA AEGL:</b> Not listed	

<b>4. FIRE HAZARDS</b> 4.1 <b>Flash Point:</b> (liquid) > 300°F C.C. 4.2 <b>Flammable Limits in Air:</b> No reaction 4.3 <b>Fire Extinguishing Agents:</b> Water, foam, carbon dioxide, dry chemical 4.4 <b>Fire Extinguishing Agents Not to Be Used:</b> Currently not available 4.5 <b>Special Hazards of Combustion Products:</b> Toxic oxides of nitrogen may form in fire. 4.6 <b>Behavior in Fire:</b> Currently not available 4.7 <b>Auto Ignition Temperature:</b> Currently not available 4.8 <b>Electrical Hazards:</b> Not pertinent 4.9 <b>Burning Rate:</b> Not pertinent 4.10 <b>Adiabatic Flame Temperature:</b> Currently not available 4.11 <b>Stoichiometric Air to Fuel Ratio:</b> Not pertinent 4.12 <b>Flame Temperature:</b> Currently not available 4.13 <b>Combustion Molar Ratio (Reactant to Product):</b> Not pertinent 4.14 <b>Minimum Oxygen Concentration for Combustion (MOCC):</b> Not listed	<b>7. SHIPPING INFORMATION</b> 7.1 <b>Grades of Purity:</b> Technical, 96+%; may also be shipped as a concentrated solution in a combustible petroleum solvent. 7.2 <b>Storage Temperature:</b> Ambient 7.3 <b>Inert Atmosphere:</b> No requirement 7.4 <b>Venting:</b> Open 7.5 <b>IMO Pollution Category:</b> Currently not available 7.6 <b>Ship Type:</b> Currently not available 7.7 <b>Barge Hull Type:</b> Currently not available
<b>5. CHEMICAL REACTIVITY</b> 5.1 <b>Reactivity with Water:</b> No reaction 5.2 <b>Reactivity with Common Materials:</b> Currently not available 5.3 <b>Stability During Transport:</b> Stable 5.4 <b>Neutralizing Agents for Acids and Caustics:</b> Not pertinent 5.5 <b>Polymerization:</b> Not pertinent 5.6 <b>Inhibitor of Polymerization:</b> Not pertinent	<b>8. HAZARD CLASSIFICATIONS</b> 8.1 <b>49 CFR Category:</b> Not listed 8.2 <b>49 CFR Class:</b> Not pertinent 8.3 <b>49 CFR Package Group:</b> Not listed. 8.4 <b>Marine Pollutant:</b> No 8.5 <b>NFPA Hazard Classification:</b> Not listed 8.6 <b>EPA Reportable Quantity:</b> Not listed. 8.7 <b>EPA Pollution Category:</b> Not listed. 8.8 <b>RCRA Waste Number:</b> Not listed 8.9 <b>EPA FWPCA List:</b> Not listed
<b>6. WATER POLLUTION</b>	
6.1 <b>Aquatic Toxicity:</b> Currently not available 6.2 <b>Waterfowl Toxicity:</b> Currently not available 6.3 <b>Biological Oxygen Demand (BOD):</b> Currently not available 6.4 <b>Food Chain Concentration Potential:</b> None 6.5 <b>GESAMP Hazard Profile:</b> Bioaccumulation: 0 Damage to living resources: 3 Human Oral hazard: 1 Human Contact hazard: 1 Reduction of amenities: X	
<b>9. PHYSICAL &amp; CHEMICAL PROPERTIES</b>	
9.1 <b>Physical State at 15° C and 1 atm:</b> Solid 9.2 <b>Molecular Weight:</b> 385.5 9.3 <b>Boiling Point at 1 atm:</b> Not pertinent (decomposes) 9.4 <b>Freezing Point:</b> Not pertinent 9.5 <b>Critical Temperature:</b> Not pertinent 9.6 <b>Critical Pressure:</b> Not pertinent 9.7 <b>Specific Gravity:</b> 1.03 at 20°C (solid) 1.03 at 25°C (liquid) 9.8 <b>Liquid Surface Tension:</b> Not pertinent 9.9 <b>Liquid Water Interfacial Tension:</b> Not pertinent 9.10 <b>Vapor (Gas) Specific Gravity:</b> Not pertinent 9.11 <b>Ratio of Specific Heats of Vapor (Gas):</b> Not pertinent 9.12 <b>Latent Heat of Vaporization:</b> Not pertinent 9.13 <b>Heat of Combustion:</b> Not pertinent 9.14 <b>Heat of Decomposition:</b> Not pertinent 9.15 <b>Heat of Solution:</b> Not pertinent 9.16 <b>Heat of Polymerization:</b> Not pertinent 9.17 <b>Heat of Fusion:</b> Currently not available 9.18 <b>Limiting Value:</b> Currently not available 9.19 <b>Reid Vapor Pressure:</b> Currently not available	
<b>NOTES</b>	

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9.20 SATURATED LIQUID DENSITY		9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
	N O T  P E R T I N E N T		N O T  P E R T I N E N T		N O T  P E R T I N E N T		N O T  P E R T I N E N T

9.24 SOLUBILITY IN WATER		9.25 SATURATED VAPOR PRESSURE		9.26 SATURATED VAPOR DENSITY		9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
	V E R Y  S O L U B L E		N O T  P E R T I N E N T		N O T  P E R T I N E N T		N O T  P E R T I N E N T