

LAURIC ACID

LRA

CAUTIONARY RESPONSE INFORMATION				4. FIRE HAZARDS		7. SHIPPING INFORMATION		
Common Synonyms C-1297 n-Dodecanoic acid Duodecyclic acid Hydrofolic acid 1255 or 1295 Hydrene 9612 Laurostearic acid Neo-fat 12 Neo-fat 12-43		Solid	White	4.1 Flash Point: >230°F C.C. 4.2 Flammable Limits in Air: Currently not available 4.3 Fire Extinguishing Agents: Carbon dioxide, dry chemical, alcohol foam, water spray. 4.4 Fire Extinguishing Agents Not to Be Used: Currently not available 4.5 Special Hazards of Combustion Products: Currently not available 4.6 Behavior in Fire: May cause dust explosion. 4.7 Auto Ignition Temperature: Currently not available 4.8 Electrical Hazards: Currently not available 4.9 Burning Rate: Currently not available 4.10 Adiabatic Flame Temperature: Currently not available 4.11 Stoichiometric Air to Fuel Ratio: 80.9 (calc.) 4.12 Flame Temperature: Data not available 4.13 Combustion Molar Ratio (Reactant to Product): 24.0 (calc.) 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed		7.1 Grades of Purity: Currently not available 7.2 Storage Temperature: Currently not available 7.3 Inert Atmosphere: Currently not available 7.4 Venting: Currently not available 7.5 IMO Pollution Category: B 7.6 Ship Type: 3 7.7 Barge Hull Type: Currently not available		
Keep people away. Avoid contact with solution and vapor. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Call fire department. Notify local health and pollution control agencies.				8. HAZARD CLASSIFICATIONS		8.1 49 CFR Category: Not listed. 8.2 49 CFR Class: Not pertinent. 8.3 49 CFR Package Group: Not listed. 8.4 Marine Pollutant: No 8.5 NFPA Hazard Classification: Not listed 8.6 EPA Reportable Quantity: Not listed. 8.7 EPA Pollution Category: Not listed. 8.8 RCRA Waste Number: Not listed 8.9 EPA FWPCA List: Not listed		
Fire Combustible. Water may be ineffective on fire. Wear self contained breathing apparatus and protective clothing. Extinguish with dry chemical, alcohol foam, or CO ₂ .		Exposure CALL FOR MEDICAL AID VAPOR, AEROSOL MIST OR DUST Irritating to eyes, mucous membranes, nose and throat. If inhaled will cause coughing or difficult breathing. IF IN EYES, hold eyelids open and flush with plenty of water. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. LIQUID (SOLUTION) Will burn 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.			9. PHYSICAL & CHEMICAL PROPERTIES		9.1 Physical State at 15° C and 1 atm: Solid 9.2 Molecular Weight: 200.32 9.3 Boiling Point at 1 atm: 437°F = 225°C = 498.2°K (at 100 mm.Hg = 0.132atm) 9.4 Freezing Point: 111.2-114.8°F = 44-46°C = 317.2-319.2°K 9.5 Critical Temperature: Currently not available 9.6 Critical Pressure: Currently not available 9.7 Specific Gravity: 0.883 9.8 Liquid Surface Tension: Currently not available 9.9 Liquid Water Interfacial Tension: Currently not available 9.10 Vapor (Gas) Specific Gravity: 6.91 9.11 Ratio of Specific Heats of Vapor (Gas): Currently not available 9.12 Latent Heat of Vaporization: Currently not available 9.13 Heat of Combustion: Currently not available 9.14 Heat of Decomposition: Currently not available 9.15 Heat of Solution: Currently not available 9.16 Heat of Polymerization: Currently not available 9.17 Heat of Fusion: Currently not available 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: Currently not available	
Water Pollution May be dangerous to aquatic life in high concentrations. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.		5. CHEMICAL REACTIVITY		6. WATER POLLUTION		NOTES		
1. CORRECTIVE RESPONSE ACTIONS Stop discharge		2. CHEMICAL DESIGNATIONS		6.1 Aquatic Toxicity: Currently not available 6.2 Waterfowl Toxicity: Currently not available 6.3 Biological Oxygen Demand (BOD): Currently not available 6.4 Food Chain Concentration Potential: Currently not available 6.5 GESAMP Hazard Profile: Bioaccumulation: 0 Damage to living resources: 3 Human Oral hazard: 0 Human Contact hazard: 0 Reduction of amenities: 0				
3. HEALTH HAZARDS <p>3.1 Personal Protective Equipment: Respirator, chemical safety goggles, boots and heavy rubber gloves.</p> <p>3.2 Symptoms Following Exposure: May be harmful by inhalation, ingestion or skin absorption. Vapor or mist is irritating to eyes, mucous membrane and upper respiratory tract. Causes eye and skin irritation.</p> <p>3.3 Treatment of Exposure: INHALATION: Call for medical aid. Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen. EYES: Flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with the fingers. SKIN: Wash with soap and copious amounts of water.</p> <p>3.4 TLV-TWA: Not listed.</p> <p>3.5 TLV-STEL: Not listed.</p> <p>3.6 TLV-Ceiling: Not listed.</p> <p>3.7 Toxicity by Ingestion: Grade 1; LD₅₀ = 12 g/kg (rat)</p> <p>3.8 Toxicity by Inhalation: Currently not available.</p> <p>3.9 Chronic Toxicity: Currently not available</p> <p>3.10 Vapor (Gas) Irritant Characteristics: Vapors or mists cause severe irritation and can cause eye and lung injury. They cannot be tolerated even at low concentrations.</p> <p>3.11 Liquid or Solid Characteristics: Severe skin irritant. Causes second and third degree burns on short contact and is very injurious to the eyes.</p> <p>3.12 Odor Threshold: Currently not available.</p> <p>3.13 IDLH Value: Not listed.</p> <p>3.14 OSHA PEL-TWA: Not listed.</p> <p>3.15 OSHA PEL-STEL: Not listed.</p> <p>3.16 OSHA PEL-Ceiling: Not listed.</p> <p>3.17 EPA AEGL: Not listed</p>								

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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
CURRENTLY NOT AVAILABLE	CURRENTLY NOT AVAILABLE	CURRENTLY NOT AVAILABLE	CURRENTLY NOT AVAILABLE	CURRENTLY NOT AVAILABLE	CURRENTLY NOT AVAILABLE	CURRENTLY NOT AVAILABLE	CURRENTLY NOT AVAILABLE

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
INSOLUBLE		250 303 331 362 395 410 415 422 482 525 571	0.019 0.097 0.193 0.387 0.774 0.967 1.160 1.934 3.867 7.735 14.696		C UR RE NT LY NOT AV AIL AB LE	0 25 50 75 100 125 150 175 200 225 250 275 300 325 350 375 400 425 450 475 500 525 550 575 600	0.326 0.340 0.353 0.366 0.379 0.392 0.404 0.416 0.428 0.440 0.452 0.463 0.474 0.485 0.495 0.506 0.516 0.526 0.536 0.546 0.555 0.564 0.573 0.582 0.591