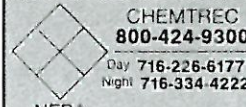


# MATERIAL SAFETY DATA SHEET

MSDS No. LL 65  
Effective Date July 1, 1991

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	LAURIC ACID	 <p>CHEMTREC 800-424-9300 Day 716-226-6177 Night 716-334-4222</p> <p>NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4</p>	Health	0
Chemical Synonyms	Dodecanoic Acid		Fire	1
Formula	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>10</sub> CO <sub>2</sub> H		Reactivity	1
Unit(s) Size	100 grams to 2.5 Kg.			
C.A.S. No.	143-07-7			

## SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)	%	TLV Units
Lauric Acid	99%	None established.

WARNING! CAUSES IRRITATION TO SKIN,  
EYES AND MUCOUS MEMBRANES

## SECTION III PHYSICAL DATA

Melting Point (°F)	109°F (43°C)	Specific Gravity (H <sub>2</sub> O = 1)	0.89 @ 75°/25°C
Boiling Point (°F)	374°F (190°C) @ 10 mm	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	50 mm @ 210°C	Evaporation Rate ( = 1)	Non-volatile (NA).
Vapor Density (Air = 1)	Data not listed.		
Solubility in Water	Insoluble in water.		
Appearance and Odor	White, waxy solid. Fatty acid odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	320°F (160°C) (GCC)	Flammable Limits in Air % by Volume	Lower	Upper
Extinguisher Media	Water spray; carbon dioxide; foam; dry chemical (ABC).		Not established.	Not established.

## SPECIAL FIREFIGHTING PROCEDURES

Melted Lauric acid should be handled like a grease fire with knowledge that it can float on water and spread. In fire conditions, wear a NIOSH-approved self-contained breathing apparatus.

## UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat can produce hazardous decomposition products; can react vigorously with oxidizing materials.

C.F.T. NON-REGULATED

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

## SECTION V HEALTH HAZARD DATA

Threshold Limited Value TLV: None established by (ACGIH-1986). PEL: None established OSHA.

**Effects of Overexposure**  
**INHALATION:** Unknown. **INGESTION:** LD50: 10 grams/KG (ALBINO RATS)  
**EYE CONTACT:** Causes corneal opacity and moderate conjunctivitis in all rabbits, and iritis in five of six rabbits. **SKIN CONTACT:** Produces very slight erythema in five of six intact sites and three of six abraded sites, no irritation in one intact and one abraded site, and blanching in one abraded site at the 24-hour reading. No edema was present at any intact or abraded site at this reading. Primary irritation index was calculated to be 1.12.

**Emergency and First Aid Procedures**  
**INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink. Induce vomiting and call physician. **SKIN CONTACT:** Flush with water. **EYE CONTACT:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **INHALATION:** Remove to fresh air. If illness or discomfort develop, get medical attention. If victim has stopped breathing give artificial respiration, preferably by mouth-to-mouth. Get medical attention.

## SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Excessive temperature and heat.
	Stable	X	
Incompatibility (Materials to avoid)	Avoid contact with strong oxidizing agents and strong alkalis.		
Hazardous Decomposition Products	Combustion will produce carbon dioxide, smoke and probably emits carbon monoxide.		
Hazardous Polymerization	Conditions to Avoid	Not applicable.	
May Occur	Will Not Occur	X	

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled**  
 Remove all sources of ignition. Sweep up and place in a suitable container. Reclaim where possible.

## Waste Disposal Method

Dispose of in an approved incinerator. Discharge, treatment, or disposal may be subject to federal, state, or local laws.

## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None needed in normal laboratory use. Wear an OSHA-approved dust mask if needed or work in ventilation hood.			
Ventilation	Local Exhaust Mechanical (General)	None needed. If dusty.	Special Other	No.
Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.	

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling and Storing**  
 Store in a cool, dry place away from fire hazards and strong oxidizing materials. Wash thoroughly after handling. Do not breathe dust. Keep container tightly closed when not in use.

**Other Precautions**  
 Read label on container before using. Do not wear contact lenses when working with chemicals.

Avoid contact with skin, eyes and clothing. Keep container tightly closed. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Rev. No.	No. 3	Date	7/1/91	Approved	Alexander A. Piccirilli	Chemical Safety Coordinator	AP
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