# MATERIAL SAFETY DATA SHEET

# CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ......PRO-SET® LAM-229

PRODUCT CODE: .....LAM-229 CHEMICAL FAMILY: ..... Amine

CHEMICAL NAME: ...... Modified polyamine FORMULA: ..... Not applicable

MANUFACTURER:

Gougeon Brothers, Inc. 100 Patterson Avenue Bay City, MI 48706, U.S.A. Phone: 888-377-6738 or 989-684-7286

www.prosetepoxy.com

## EMERGENCY TELEPHONE NUMBERS:

Transportation

CHEMTREC:.....800-424-9300 (U.S.) 703-527-3887 (International)

Non-transportation

Poison Hotline: ...... 800-222-1222

#### HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW**

HMIS Hazard Rating:

Health - 3

Flammability - 1

Physical Hazards - 0

DANGER Causes burns to eyes and skin. Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. May cause allergic reactions. Amber colored liquid with ammonia odor.

## POTENTIAL HEALTH EFFECTS:

ACUTE INHALATION: Excessive exposure to vapor or mist is irritating to the upper respiratory tract, causing nasal discharge, coughing, and discomfort in eyes, nose, throat and chest. Severe cases may cause difficult breathing and lung damage.

CHRONIC INHALATION: May cause lung damage. May cause respiratory sensitization in susceptible individuals. Repeated exposures may cause internal organ damage.

blistering. Wide spread contact may result in material being absorbed in harmful amounts.

cause allergic reaction/sensitization and possible tissue destruction. Can be absorbed through the skin in amounts that can cause internal organ damage.

injury resulting in permanent vision impairment or even blindness.

cause burns of the mouth and throat. Aspiration hazard.

possible headache. Eye irritation and blurred vision.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: ..... Existing respiratory conditions, such as asthma and bronchitis. Existing skin conditions.

# COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME	<u>CAS #</u>	CONCENTRATION (%)
Polyoxypropylenediamine Formaldehyde, polymer with benzeneamine, hydrogentated Cyclohexanediamine, 1,2- Aminoethylpiperazine 1,3-Propandiamine, N,N'-1,2-ethandiylbis- Benzene-1,3-dimethanamine	9046-10-0 135108-88-2 694-83-7 141-31-8 10563-26-5 1477-55-0	50-80 10-30 10-30 0-10 0-10 0-5

Last Revised: 25OCT12 MSDS #LAM-229-12a

0-5 98-54-4 Paratertiarybutylphenol 0-5 25620-58-0 Trimethylhexamethylenediamine 0-5 NA Trade Secret FIRST AID MEASURES medical attention. water. Do not apply greases or ointments. Get medical attention if severe exposure. hazard. If vomiting should occur spontaneously, keep airway clear. Get medical attention. FIRE FIGHTING MEASURES FLASH POINT: .....> 200°F (Open Cup) powder. FIRE AND EXPLOSION HAZARDS: Burning can generate toxic fumes. Products of combustion may include, but not limited to: oxides of nitrogen, volatile amines, ammonia, nitric acid, nitrosamines. When mixed with sawdust, wood chips, or other cellulosic material, spontaneous combustion can occur under certain conditions. If hardener is spilled into or mixed with sawdust, heat is generated as the air oxidizes the amine. If the heat is not dissipated quickly enough, it can ignite the sawdust. apparatus. Use of water may generate toxic aqueous solutions. Do not allow water run-off from fighting fire to enter drains or other water courses. ACCIDENTAL RELEASE MEASURES SPILL OR LEAK PROCEDURES: .......Stop leak without additional risk. Wear proper personal protective equipment. Dike and contain spill. Ventilate area. Large spill - dike and pump into appropriate container for recovery. Small spill recover or use inert, non-combustible absorbent material (e.g., sand, clay) and shovel into suitable container. Do not use sawdust, wood chips or other cellulosic materials to absorb the spill, as the possibility for spontaneous combustion exists. Wash spill residue with warm, soapy water if necessary. 7. HANDLING AND STORAGE STORAGE TEMPERATURE (min./max.): ......40°F (4°C) / 90°F (32°C). STORAGE:.....Store in cool, dry place with adequate ventilation. from heated material. Avoid contact with skin and eyes. Wash thoroughly after handling. When mixed with epoxy resin this product causes an exothermic reaction, which in large masses, can produce enough heat to damage or ignite surrounding materials and emit fumes and vapors that vary widely in composition and toxicity. EXPOSURE CONTROLS/PERSONAL PROTECTION neoprene, butyl rubber or natural rubber) and full body-covering clothing. RESPIRATORY/VENTILATION GUIDELINES: ......General mechanical or local exhaust ventilation. With inadequate ventilation, use a NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge. emergency eye wash. Provide proper wash/cleanup facilities for proper hygiene. Contact lens should not be worn when working with this material. Generally speaking, working cleanly and following basic precautionary measures will greatly minimize the potential for harmful exposure to this product under normal use conditions.

Last Revised: 25OCT12

Exposure Level (PEL) or the ACGIH Guidelines for information on specific ingredients.

## PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM	Liquid.
COLOR	Clear.
ODOR	Ammonia-like.
BOILING POINT	> 480°F.
THE TWO DOINT/EDEETS BOINT	No data.
pH	11 - 12
SOLUBILITY IN WATER	
SPECIFIC GRAVITY	0.97
SPECIFIC GRAVITY	0.4 /

BULK DENSITY ......8.1 (pounds/gallon.) VAPOR PRESSURE \_\_\_\_\_< 1 mmHg @ 20°C. VAPOR DENSITY ......Heavier than air.

......34 (cP)

% VOLATILE BY WEIGHT......ASTM 2369-07 was used to determine the Volatile Matter Content of

mixed epoxy resin and hardener.

	VOC Content	
Resin/Hardener	(g/L)	(Ib/gal)
LAM-125 / LAM-229	3.02	0.03
LAM-135 / LAM-229	1.33	0.01
LAM-135 / LAM-229	1 25	0.01
AM-145   AM-229		

#### 10. STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: ......Will not occur.

halogenated compounds such as methylene chloride. Reactions may be slow initially, then may rapidly generate heat and vapor pressure.

thermal decomposition. Decomposition products may include, but not limited to: oxides of nitrogen, volatile amines, ammonia, nitric

# 11. TOXICOLOGICAL INFORMATION

No specific oral, inhalation or dermal toxicology data is known for this product.

Oral:	Expected to be moderately toxic.
Inhalation:	Expected to be moderately local.
Dermal:	Expected to be moderately toxic.

#### CARCINOGENICITY:

NITO	No.
IADC	No.
IARU	Ma
OCHA	No.

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA, NTP or IARC.

#### 12. ECOLOGICAL INFORMATION

Harmful to the environment. Harmful to aquatic species. This product is not readily biodegradable. May present long term environmental hazards. Do not allow into sewers, on the ground or in any body of water.

#### 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: ......Evaluation of this product using RCRA criteria shows that it is not a hazardous waste, either by listing or characteristics, in its purchased form. It is the responsibility of the user to determine proper disposal methods.

Incinerate, recycle (fuel blending) or reclaim may be preferred methods when conducted in accordance with federal, state and local regulations.

# 14. TRANSPORTATION INFORMATION

DOT
D.O.T. SHIPPING NAME:
Polyamines, liquid, corrosive, r.o.s.
Benzene-1,3-dimethanamine.
Class 8
U.N./N.A. NUMBER:
UN 2735
PACKING GROUP:
PG II

IATA
SHIPPING NAME:
SHIPPING NAME:
TECHNICAL SHIPPING NAME:
HAZARD CLASS:
U.N. NUMBER:
PACKING GROUP:
PG II

INDUS
SHIPPING NAME: Polyamines, liquid, corrosive, n.o.s.
TECHNICAL SHIPPING NAME: Benzene-1,3-dimethanamine
HAZARD CLASS: Class 8
U.N. NUMBER: UN 2735
PACKING GROUP: PG II

## 15. REGULATORY INFORMATION

WHMIS STATUS: ......D2A, D2B, E

SARA TITLE III:

SECTION 313 TOXIC CHEMICALS: None

## STATE REGULATORY INFORMATION:

The following chemicals are specifically listed or otherwise regulated by individual states. For details on your regulatory requirements you should contact the appropriate agency in your state.

COMPONENT NAME
Benzene-1,3-dimethanamine
1477-55-0
Paratertiarybutylphenol

STATE CODE NJ, PA, MA

PA, NJ

## 16. OTHER INFORMATION

98-54-4

 REASON FOR ISSUE:
 New product.

 PREPARED BY:
 G. M. House

 APPROVED BY:
 Health, Safety & Environmental Manager

 TITLE:
 October 25, 2012

 APPROVAL DATE:
 NA

 SUPERSEDES DATE:
 NA

 MSDS NUMBER:
 LAM-229-12a

Note: The Hazardous Material Indexing System (HMIS), cited in the Emergency Overview of Section 3, uses the following index to assess hazard rating: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; and 4 = Severe.

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