MATERIAL SAFETY DATA SHEET

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION PRODUCT NAME:PRO-SET® LAM-135 PRODUCT CODE:LAM-135 CHEMICAL FAMILY: Epoxy Resin. CHEMICAL NAME: Bisphenol-A based epoxy resin. FORMULA: Not applicable. **EMERGENCY TELEPHONE NUMBERS:** MANUFACTURER: Transportation Gougeon Brothers, Inc. 800-424-9300 (U.S.) CHEMTREC:... 100 Patterson Avenue 703-527-3887 (International) Bay City, MI 48706, U.S.A. Non-transportation Phone: 888-377-6738 or 989-684-7286 Poison Hotline: 800-222-1222 www.prosetepoxy.com HAZARDS IDENTIFICATION **EMERGENCY OVERVIEW** Physical Hazards - 0 Flammability - 1 Health - 2 **HMIS Hazard Rating:** WARNING May cause skin irritation. May cause eye irritation. May cause allergic reaction and sensitization. Clear liquid with mild odor. PRIMARY ROUTE(S) OF ENTRY:Skin contact. **POTENTIAL HEALTH EFFECTS:** dizziness and possible respiratory irritation if inhaled in high concentrations. CHRONIC INHALATION: Repeated exposure to high vapor concentrations may cause irritation of pre-existing lung allergies and increase the chance of developing allergy symptoms to this product. moderate irritation to the skin such as redness and itching. CHRONIC SKIN CONTACT: May cause sensitization in susceptible individuals. May cause moderate irritation to the skin. EYE CONTACT:May cause irritation. INGESTION:Low acute oral toxicity. as redness and rashes. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:Pre-existing skin and respiratory disorders may be aggravated by exposure to this product. Pre-existing lung and skin allergies may increase the chance of developing allergic symptoms to this product. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS **CONCENTRATION (%)** CAS# INGREDIENT NAME 60-100 25085-99-8 Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers 30499-70-8 10-30 1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer FIRST AID MEASURES FIRST AID FOR EYES:Flush immediately with water for at least 15 minutes. Consult a physician. waterless skin cleaner and then wash with warm soap and water. If imitation occurs, get medical attention.

MSDS# LAM-135-12a

Last Revised: 24OCT12

	FIRST AID FOR INGESTION		
	FIRE FIGHTING MEASURES		
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	FLASH POINT:> 260°F (PMCC)		
	EXTINGUISHING MEDIA:Foam, carbon dioxide (CO ₂) or dry chemical.		
	SPECIAL FIRE FIGHTING PROCEDURES:		
	FIRE AND EXPLOSION HAZARDS:		
3.	ACCIDENTAL RELEASE MEASURES		
<u> </u>	SPILL OR LEAK PROCEDURES:		
7.	HANDLING AND STORAGE		
	STORAGE TEMPERATURE (MIN./MAX.):40°F (4°C) / 90°F (32°C)		
	STORAGE:		
	HANDLING PRECAUTIONS: Ventilate work area. Avoid skin contact. Wash skin thoroughly after handling. Launder contaminated clothing before reuse or discard. Precautionary steps should be taken when curing product in large quantities. When mixed with epoxy curing agents this product causes an exothermic, 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.		
8.	EXPOSURE CONTROLS/PERSONAL PROTECTION		
	EYE PROTECTION REQUIREMENTS:		
	SKIN PROTECTION GUIDELINES:		
	RESPIRATORY/VENTILATION REQUIREMENTS:		
Note: Gougeon Brothers, Inc. has conducted an air sampling study using this product or similarly formulated products. The indicate that the components sampled for (epichlorohydrin) were either so low that they were not detected at all or they we OSHA's permissible exposure levels.			
	OSHA's permissible exposure levels.		
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	indicate that the components sampled for (epichioronydrin) were either so low that they was not detected as OSHA's permissible exposure levels. ADDITIONAL PROTECTIVE MEASURES:		
9.	indicate that the components sampled for (epichloronydrin) were either so low that they was not determined that they was not determined to SHA's permissible exposure levels. ADDITIONAL PROTECTIVE MEASURES:		
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9.	indicate that the components sampled for (epichloronydrin) were either so low that they either so low that they were either so low that they either so low that t		
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9.	indicate that the components sampled for (epichlororydrin) were either so low that they work of the Color OSHA's permissible exposure levels. ADDITIONAL PROTECTIVE MEASURES:		
9.	indicate that the components sampled for (epichioronydrin) were either so low that they was not determined to OSHA's permissible exposure levels. ADDITIONAL PROTECTIVE MEASURES: Wash thoroughly after handling. Avoid breathing vapors from heated material. Protective skin cream barriers can be applied to hands in addition to gloves for added protection. Generally speaking, working cleanly and following basic precautionary measures will greatly minimize the potential for harmful exposure to this product under normal use conditions. OCCUPATIONAL EXPOSURE LIMITS: Not established for product as whole. Refer to OSHA's Permissible Exposure Level (PEL) or the ACGIH Guidelines for information on specific ingredients. PHYSICAL AND CHEMICAL PROPERTIES PHYSICAL FORM Liquid. Colors		

10.

mLi	No data.
pHSOLUBILITY IN WATER	Insoluble.
SPECIFIC GRAVITY	
VAPOR PRESSURE	< 1 mmHg @ 20°C.
VAPOR PRESSURE	Heavier than air.
% VOLATILE BY WEIGHT. Refer to the hardener's	MSDS for information about the total volatile content of the resin/hardener system.
epoxy resin and nardener. There to the hardener	
OTABILITY AND DEACTIVITY	
STABILITY AND REACTIVITY	
STABILITY:	Stable.
plus an aliphatic amine will cause irreversible poly	merization with considerable heat buildup.
plus an aliphatic amine will cause lifeversiole pory	Herization with consequence
WOODER ATION ITIES.	Strong acids and oxidizing agents.
INCOMPATIBILITIES:	
PERCHAPORITION RECOLLETS:	
DECOMPOSITION EKODOC 13	A A A A A A A A A A A A A A A A A A A

11. TOXICOLOGICAL INFORMATION

No specific oral, inhalation or dermal toxicology data is known for this product. Specific toxicology information for a bisphenol-A based epoxy resin present in this product is indicated below:

Oral:LD₅₀ >5000 mg/kg (rats) Inhalation: No Data Dermal:.....LD60 = 20,000 mg/kg (skin absorption in rabbits)

during uncontrolled exothermic reactions or when otherwise heated to decomposition.

TERATOLOGY: Diglycidyl ether of bisphenol-A (DGEBPA) did not cause birth defects or other adverse effects on the fetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure, or when pregnant rats or rabbits were exposed orally.

REPRODUCTIVE EFFECTS:DGEBPA, in animal studies, has been shown not to interfere with reproduction.

MUTAGENICITY:DGEBPA in animal mutagenicity studies were negative. In vitro mutagenicity studies were negative in some cases and positive in others.

CARCINOGENICITY:

NTPProduct not listed. IARC.....Product not listed. OSHAProduct not listed.

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

Many studies have been conducted to assess the potential carcinogenicity of diglycidyl ether of bisphenol-A. Although some weak evidence of carcinogenicity has been reported in animals, when all of the data are considered, the weight of evidence does not show that DGEBPA is carcinogenic. Indeed, the most recent review of the available data by the International Agency for Research on Cancer (IARC) has concluded that DGEBPA is not classified as a carcinogen.

Epichlorohydrin, an impurity in this product (<5 ppm) has been reported to produce cancer in laboratory animals and to produce mutagenic changes in bacteria and cultured human cells. It has been established by the International Agency for Research on Cancer (IARC) as a probable human carcinogen (Group 2A) based on the following conclusions: human evidence - inadequate; animal evidence – sufficient. It has been classified as an anticipated human carcinogen by the National Toxicology Program (NTP). Note: It is unlikely that normal use of this product would result in measurable exposure concentrations to this substance.

12. ECOLOGICAL INFORMATION

Prevent entry into sewers and natural waters. May cause localized fish kill.

Movement and Partitioning:

Bioconcentration potential is low (BCF less than 100 or Log Kow less than 3).

Degradation and Transformation:

Biodegradation under aerobic static laboratory conditions is below detectable limits (i.e., BOD less than 2.5% of theoretical) in 20 days.

Ecotoxicology:

Material is moderately toxic to aquatic organisms on an acute basis. LC₅₀ between 0.1 and 1.0 mg/L in most sensitive species.

13. DISPOSAL CONSIDERATION

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: TECHNICAL SHIPPING NAME: D.O.T. HAZARD CLASS: U.N./N.A. NUMBER: PACKING GROUP:	Not applicableNot applicableNot applicable.
IATA SHIPPING NAME: TECHNICAL SHIPPING NAME: HAZARD CLASS: U.N. NUMBER:	

IMDG	
SHIPPING NAME:	Environn
TECHNICAL SHIPPING NAME:	Epoxy R
HAZARD CLASS:	Class 9
HAZARD CLASS:	LINADO

Epoxy Resin. PACKING GROUP: PG III. MARINE POLLUTANTYes

15. REGULATORY INFORMATION

EmS Number:

OSHA STATUS:	
USHA STATUS	All assessments are listed on TSCA Inventory (
TSCA STATUS:	All components are listed on TSCA Inventory of
1007 01711 001	

TSCA requirements. Canada WHMIS Classification:D2B

MARINE POLLUTANTYes

SARA TITLE III:

SECTION 313 TOXIC CHEMICALSNone (deminimus).

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

CAS NUMBER Epichlorohydrin 106-89-8

CONCENTRATION

STATE CODE

or otherwise comply with

< 5ppm

1CA, MA, PA, RI

16. OTHER INFORMATION

REASON FOR ISSUE:	New product.
PREPARED BY:	G. M. House
APPROVED BY:	G. M. House

^{1.} These substances are known to the state of California to cause cancer or reproductive harm, or both.

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APPROVAL DATE:	October 24, 2012
SUPERSENES DATE:	NA
MSDS NUMBER:	LAM-135-12a

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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