

# SAFETY DATA SHEET

## MAS LV EPOXY RESIN

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### SECTION 1: IDENTIFICATION

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#### GHS PRODUCT IDENTIFIERS:

**PRODUCT NAME:** MAS Epoxies Low Viscosity Epoxy Resin  
**SYNONYMS, TRADE NAMES:** MAS LV Resin, Low Viscosity Resin  
**OTHER MEANS OF IDENTIFICATION:** Not available

#### RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

**USES:** Polymer Matrix For Fiber-Reinforced Plastic (FRP)  
**RESTRICTIONS ON USE:** None Identified

#### SUPPLIER'S DETAILS:

**MANUFACTURER/SUPPLIER:** Endurance Technologies, Inc.  
275 Bridge Point Drive  
South Saint Paul, MN 55075, USA  
**TELEPHONE:** +1 651 451 8000  
**FACSIMILE:** +1 651 451 9728

**CONTACT PERSON:** Eric Frank

#### EMERGENCY PHONE NUMBER:

**INFOTRAC (24 HRS): USA & CANADA** 1 800 535 5053  
**INFOTRAC (24 HRS): INTERNATIONAL** +1 352 323 3500

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### SECTION 2: HAZARDS IDENTIFICATION

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#### GHS CLASSIFICATION OF SUBSTANCE OR MIXTURE:

Skin irritation: Category 2, H315  
Eye irritation: Category 2, H319  
Skin sensitization: Category 1, H317  
Hazardous to the aquatic environment: Chronic Category 2, H411  
Hazardous to the aquatic environment: Acute Category 2, H401

#### GHS LABEL ELEMENTS:

#### HAZARD SYMBOLS:



#### SIGNAL WORDS:

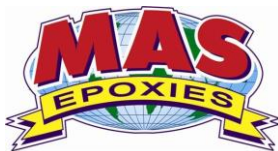
Warning

#### HAZARD STATEMENTS:

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H401 Toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.

#### PRECAUTIONARY STATEMENTS:

**PREVENTION:** P264 Wash hands thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves, clothing, and eye/face protection.



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**RESPONSE:** P301+P312 IF SWALLOWED: Call POISON CENTER and/or doctor if you feel unwell.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P333+P313 If skin irritation or rash occurs: Get medical attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical attention.  
P391 Collect spillage.

**STORAGE:** P403+P233 Store in a well-ventilated place. Keep container tightly closed.

**DISPOSAL:** P501 Dispose of contents and containers in accordance with local, regional and international regulations.

Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS) – Annex III

### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME:	CAS NUMBER:	CONTENT:
Bisphenol A Epoxy Resin	25068-38-6	70-90%
Alkyl Glycidyl Ether	120547-52-6	10-20%
Castor Oil Glycidyl Ether	74398-71-3	4-8%
Epoxy Phenol Novolac Resin	28064-14-4	0-10%

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

### SECTION 4: FIRST-AID MEASURES

#### DESCRIPTION OF NECESSARY FIRST-AID MEASURES:

**INHALATION:** If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

**SKIN:** Immediately remove contaminated clothing and shoes. Wash the affected area with plenty of soap and water until no evidence of the chemical remains (at least 15-20 minutes). Launder clothing before reuse. Seek medical attention if symptoms occur.

**EYES:** Immediately flush eyes with plenty of clean water for an extended time, not less than fifteen (15) minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion. Seek medical attention if irritation develops or persists.

**INGESTION:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out the mouth with water. Get medical attention immediately.

#### MOST IMPORTANT SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:

**SYMPTOMS:** Irritation. Pre-existing skin problems may be aggravated by prolonged or repeated contact. See section 11 for additional information.

#### INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

**TREATMENT:** Treat symptomatically.



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### SECTION 5: FIRE-FIGHTING MEASURES

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#### EXTINGUISHING MEDIA:

**SUITABLE:** Use water spray, foam, dry chemical or carbon dioxide.

**UNSUITABLE:** None known.

#### SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

**UNUSUAL FIRE & EXPLOSION HAZARDS:** Product is not considered a fire hazard, but will burn if ignited. Closed container may rupture (due to build up in pressure) when exposed to extreme heat.

**HAZARDOUS COMBUSTION PRODUCTS:** Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See Section 10 Hazardous decomposition products for additional information.

**SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:** Wear self-contained breathing apparatus (SCBA) equipped with a full face piece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations. See section 9 for additional information.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

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**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:** See Section 8 for recommendations on the use of personal protective equipment. If spilled in an enclosed area, ventilate. Eliminate ignition sources. Personal Protective Equipment must be worn.

**ENVIRONMENTAL PRECAUTIONS:** Do not flush product into public sewer, water systems or surface waters.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Stop leak if without risk. Move containers from spill area. Contain by diking with sand, earth or other non-combustible material. Wear proper personal protective clothing and equipment. Absorb spill with an inert material. Place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing and launder before reuse.

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### SECTION 7. HANDLING AND STORAGE

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**PRECAUTIONS FOR SAFE HANDLING:** As with any chemical product, use good laboratory/workplace procedures. Do not cut, puncture, or weld on or near the container. Use under well-ventilated conditions. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Avoid eye and skin contact. Avoid inhalation of aerosol, mist, spray, fume, vapor or dust generated by this product. Avoid drinking, tasting, swallowing or ingesting this product. Wash contaminated clothing before reuse. Discard shoes contaminated with this product.

**CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:** Keep away from heat, sparks and open flames. Store dry at 15-40°C, under well-ventilated conditions. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use. Empty container contains residual product which may exhibit hazards of product. Do not reuse empty container without commercial cleaning or reconditioning.

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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#### CONTROL PARAMETERS:

#### OCCUPATIONAL EXPOSURE LIMITS:



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CHEMICAL NAME	CAS NUMBER	ACGIH-TWA	ACGIH-STEL
Bisphenol A Epoxy Resin	25068-38-6	Not available	Not available
Alkyl Glycidyl Ether	120547-52-6	Not available	Not available
Castor Oil Glycidyl Ether	74398-71-3	Not available	Not available
Epoxy Phenol Novolac Resin	28064-14-4	Not available	Not available

**APPOPRIATE ENGINEERING CONTROLS:** Always provide effective general and, when necessary, local exhaust ventilation to draw spray, aerosol, fume, mist and vapor away from workers to prevent routine inhalation. Ventilation must be adequate to maintain air concentrations below occupational exposure standards. When necessary use mechanical handling to reduce human contact with materials.

### INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT (PPE):

<b>EYE/FACE PROTECTION:</b>	Safety glasses or goggles required.
<b>SKIN PROTECTION:</b>	Wear chemical resistant (impervious) gloves; PVC, neoprene, nitrile rubber, EVAL, butyl rubber. Wear chemical resistant protective clothing. Use good laboratory/workplace procedures including personal protective clothing: lab coat and protective gloves.
<b>RESPIRATORY PROTECTION:</b>	Wear an approved respirator (e.g., an organic vapor respirator, a full face air purifying respirator for organic vapors, or a self-contained breathing apparatus) whenever exposure to aerosol, mist, spray, fume or vapor exceed the applicable exposure limit(s) of any chemical substance listed in this SDS.
<b>GENERAL PROTECTION:</b>	Eyewash fountains and safety showers are recommended in the work area.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>APPEARANCE:</b>	Viscous liquid	<b>UPPER/LOWER FLAMMABILTY OR EXPLOSIVE LIMITS:</b>	Not available
<b>COLOR:</b>	Clear, Yellow	<b>VAPOUR PRESSURE:</b>	<1 mm Hg at 20°C
<b>ODOUR:</b>	Slight	<b>VAPOUR DENSITY:</b>	Heavier than air
<b>ODOUR THRESHOLD:</b>	Not available	<b>RELATIVE DENSITY:</b>	1.11
<b>PH:</b>	Not available	<b>SOLUBILITY(IES):</b>	Negligible
<b>MELTING POINT/ FREEZING POINT</b>	Not available	<b>PARTITION COEFFICIENT (n-octanol/water):</b>	Not available
<b>INITIAL BOILING POINT AND BOILING RANGE:</b>	Not available	<b>AUTO-IGNITION TEMPERATURE:</b>	Not available
<b>FLASH POINT:</b>	350-375°F	<b>DECOMPOSITION TEMPERATURE:</b>	Not available
<b>EVAPORATION RATE:</b>	Not available	<b>VISCOSITY:</b>	990 cP at 25°C
<b>FLAMMABILITY (SOLID, GAS):</b>	Not available		
<b>% VOLATILE BY WEIGHT: (ASTM D2369)</b>			Refer to hardener SDS for total volatile content of combined resin and hardener.

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## SECTION 10. STABILITY AND REACTIVITY

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**REACTIVITY:** Exothermic reactions including polymerization may occur in contact with amines, strong acids, strong bases, alcohols, strong oxidizing agents and excessive heat.

**CHEMICAL STABILITY:** This product is stable.



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**POSSIBILITY OF HAZARDOUS REACTIONS:** Exothermic reactions including polymerization may occur in contact with amines, strong acids, strong bases, alcohols, strong oxidizing agents and excessive heat.

**CONDITIONS TO AVOID:** Excessive heat and ignition sources.

**INCOMPATIBLE MATERIALS:** Avoid strong acids, bases, and oxidizing agents. Avoid contact with amines.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Phenolics.

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### SECTION 11. TOXICOLOGICAL INFORMATION

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**INFORMATION ON THE LIKELY ROUTES OF EXPOSURE:** Eyes, skin, inhalation and ingestion.

**SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:**

**EYES:** Causes serious eye irritation.

**SKIN:** Causes skin irritation. May cause allergic skin reaction. Repeated or prolonged contact may cause skin irritation and dermatitis.

**INHALATION:** High airborne concentrations of vapors resulting from heating, misting or spraying may cause irritation of the respiratory track and mucous membranes.

**INGESTION:** Ingestion may cause irritation.

**DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE:** Further information is not available.

**ACUTE TOXICITY:**

CHEMICAL NAME	LC <sub>50</sub> INHALATION	LD <sub>50</sub> ORAL (RAT)	LD <sub>50</sub> DERMAL (RABBIT)
Bisphenol A Epoxy Resin	Not available	>2,000 mg/kg	>2,000 mg/kg
Alkyl Glycidyl Ether	Not available	17,000 mg/kg	>4.5 mL/kg
Castor Oil Glycidyl Ether	Not available	>5,000 mg/kg	>2,000 mg/kg
Epoxy Phenol Novolac Resin	Not available	>2,000 mg/kg	>2,000 mg/kg

**CORROSION / IRRITATION / SENSITIZATION INFORMATION:**

**SKIN CORROSION/IRRITATION:** Skin Irritation – Category 2

**SERIOUS EYE DAMAGE/IRRITATION:** Eye Irritation – Category 2

**RESPIRATORY OR SKIN SENSITIZATION:** Skin Sensitization – Category 1

**CARCINOGENICITY / MUTAGENICITY / REPRODUCTIVE TOXICOLOGY INFORMATION:**

**GERM CELL MUTAGENICITY:** Information is not available.

**CARCINOGENICITY:** Information is not available.

**REPRODUCTIVE TOXICITY:** Information is not available.

**SPECIFIC TARGET ORGAN TOXICITY (STOT):**

**STOT-SINGLE EXPOSURE:** Information is not available.

**STOT-REPEATED EXPOSURE:** Information is not available.

**ASPIRATION HAZARD:** Information is not available.

**OTHER INFORMATION:** Additional information is not available.

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### SECTION 12. ECOLOGICAL INFORMATION

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**TOXICITY:**



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## MAS LV EPOXY RESIN

CHEMICAL NAME	TEST	SPECIES	RESULT
Bisphenol A Epoxy Resin	LC <sub>50</sub> (96 hrs)	Fish	2.4 mg/L
	EC <sub>50</sub> (24 hrs)	Daphnia	3.6 mg/L
	IC <sub>50</sub> (96 hrs)	Bacteria	>100 mg/L
Alkyl Glycidyl Ether	Not available		
Castor Oil Glycidyl Ether	LC <sub>50</sub> (96 hrs)	Fish	>100 mg/L
Epoxy Phenol Novolac Resin	LC <sub>50</sub> (96 hrs)	Fish	>1-10 mg/L
	EC <sub>50</sub> (48 hrs)	Daphnia	>1-10 mg/L

### PERSISTENCE AND DEGRADABILITY:

CHEMICAL NAME	TEST	PERIOD	RESULT
Bisphenol A Epoxy Resin	OECD Derived from OECD 301F (Biodegradation Test)	28 Days	5%
Alkyl Glycidyl Ether	Not readily biodegradable		
Castor Oil Glycidyl Ether	Not expected to be readily biodegradable		
Epoxy Phenol Novolac Resin	Not readily biodegradable		

### BIOACCUMULATIVE POTENTIAL:

CHEMICAL NAME	Log P <sub>ow</sub>	BCF	POTENTIAL
Bisphenol A Epoxy Resin	3.242	31	Low
Alkyl Glycidyl Ether	3.77 (Log K <sub>ow</sub> )	Not available	Not available
Castor Oil Glycidyl Ether	Not available	Not available	Not available
Epoxy Phenol Novolac Resin	Not available	Not available	Not available

### MOBILITY IN SOIL:

CHEMICAL NAME	TEST	RESULT
Bisphenol A Epoxy Resin	Soil/water partition coefficient (K <sub>oc</sub> )	445
Alkyl Glycidyl Ether	Not available	
Castor Oil Glycidyl Ether	Not available	
Epoxy Phenol Novolac Resin	Not available	

**OTHER ADVERSE EFFECTS:** Additional information is not available

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## SECTION 13. DISPOSAL CONSIDERATIONS

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**DISPOSAL METHODS:** Dispose of unused contents (incineration) in accordance with national and local regulations. Dispose of container in accordance with national and local regulations. Ensure the use of properly authorized waste management companies, where appropriate. See section 8 for recommendations on the use of personal protective equipment.

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## SECTION 14. TRANSPORTATION INFORMATION

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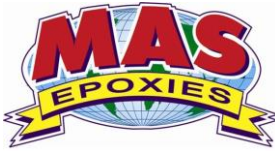
**UN NUMBER:** UN3082

**UN PROPER SHIPPING NAME:** Environmentally Hazardous Substance, Liquid, N.O.S., (Epoxy Resin)

### TRANSPORT HAZARD CLASS:

**U.S. DOT HAZARD CLASS:** Not Regulated

**CANADA TDG HAZARD CLASS:** Not Regulated



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## MAS LV EPOXY RESIN

EUROPE ADR/RID HAZARD CLASS: 9  
IMDG CODE (OCEAN) HAZARD CLASS: 9  
ICAO/IATA (AIR) HAZARD CLASS: 9

PACKING GROUP: III

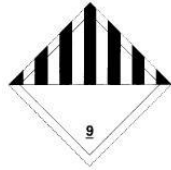
**ENVIRONMENTAL HAZARDS:**

MARINE POLLUTANT: Yes  
HAZARDOUS SUBSTANCE (USA): No

**SPECIAL PRECAUTIONS FOR USER:** Information is not available.

**TRANSPORTING IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:**  
Information is not available.

**LABEL FOR CONVEYANCE:**



**OTHER INFORMATION:** For surface shipments within the United States: Not regulated. ORM-D Consumer Commodity in 1 gal or less containers.

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### SECTION 15. REGULATORY INFORMATION

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**SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE PRODUCT IN QUESTION:**

EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV – List of substances subject to authorization, Substances of very high concern	None of the components are listed.
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	None of the components are listed.

**OTHER REGULATIONS:** Additional information is not available.

**CHEMICAL INVENTORIES:**

Canadian Domestic Substances List (DSL):	Y
Canadian Non-Domestic Substances List (NDSL):	N
European Inventory of Existing Chemical Substances (EINECS):	Y
European List of Notified Chemical Substances (ENCS):	N
U.S. Toxic Substances Control Act (TSCA):	Y

A "Y" listing indicates all intentionally added components are either listed or are otherwise compliant with the regulation. A "N" listing indicates that for one or more components: 1) there is no listing on the public inventory; 2) no information is available; or 3) the component has not been reviewed.

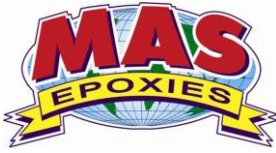
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### SECTION 16. OTHER INFORMATION

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**REVISION DATE:** June 29, 2017

**LEGEND:** ACGIH: American Conference of Governmental Industrial Hygienists  
ADR/RID: European dangerous goods transport road and rail regulations  
CAS No: Chemical Abstract Service Registry Number  
DOT: Department of Transportation (U.S.)



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GHS: Globally Harmonized System of Classification and Labeling of Chemicals  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
IMDG: International Maritime Dangerous Goods code  
OEL: Occupational Exposure Limits  
OSHA: Occupational Safety and Health Administration (U.S.)  
PEL: Permissible Exposure Limit  
RQ: Reportable Quantity  
SDS: Safety Data Sheet  
STEL: Short Term Exposure Limit (15 minute Time Weighted Average)  
TDG: Canadian Transportation of Dangerous Goods Act and Regulations  
UN: United Nations  
U.S.: United States

### **USERS RESPONSIBILITY/DISCLAIMER OF LIABILITY:**

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.



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1. CHEMICAL PRODUCT IDENTIFICATION

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PRODUCT NAME - FAST EPOXY HARDENER and Non-Blushing Hardener
AKA MAS 1768 or FAST Hardener Code # 30-011, 30-012, 30-013, 30-023, 30-025, 30-031, 30-036, 30-041 Part B of kit 30-019 also Fast Non-Blushing Hardener 30-611, 30-612, 30-613, 30-623, 30-625, 30-631, 30-636, 30-641, 30-643, 30-666

PRODUCT CLASS - Hardener

PRODUCT SIGNAL WORD Warning Corrosive Liquid

PRODUCT HAZARDS Possible Sensitizer

MANUFACTURER - Phoenix Resins, Inc.
602 Union Landing Rd, Bldg 3
Cinnaminson, NJ 08077



PRODUCT EMERGENCY NUMBERS - 1-888-627-3769 (company)
CHEMTREC -1- 800-424-9300

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2. COMPOSITION / INFORMATION On INGREDIENTS

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DESCRIPTION - The exact chemical identity of this component is a Trade Secret

CAS NUMBER - Not available COMMON NAME- Aliphatic Amine

EXPOSURE LIMITS - TLV and PEL - Not Established

LD50 ORAL >1000.00 mg/kg (no deaths) Rat, >2000.00 mg/kg (no deaths) rabbit

LC50 INHALATION - no data

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3. HAZARDS IDENTIFICATION

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CHRONIC EFFECTS - Skin Sensitization (Dermatitis)

EYE - Will cause severe eye irritation, pain and may cause burns. Burns may cause blindness

INHALATION - May cause an allergic reaction and irritation of the breathing passages

SKIN ABSORPTION and SKIN CONTACT - Sever skin irritant. Redness and diacomfort which is transient.

INGESTION - May cause gastrointestinal bleeding and vomiting of blood

HMIS HAZARD RATING

HEALTH 3 FLAMMABILITY 1 REACTIVITY 1 PERS. PROTECT. - C

NFPA HAZARD RATING

HEALTH 3 FLAMMABILITY 1 REACTIVITY 0

CARCINOGENICITY - Not listed as an IARC, OSHA or ACGIH potential carcinogen SPECIAL

PROCEDURES IN HANDLING AND STORAGE - Emergency eyewash stations and safety showers must be close to any area of possible exposure.

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#### 4. FIRST AID MEASURES

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- EYES - Flush with water immediately. Continue to flush for 30 minutes and obtain emergency medical attention.
- SKIN - Remove and do not reuse contaminated clothing. Wash exposed areas thoroughly with soap and water and flush for 15 minutes. Cover affected areas with sterile dressing or clean sheeting, DO NOT APPLY GREASES OR OINTMENTS.
- INGESTION - DO NOT INDUCE VOMITING, Give 3 -4 glasses of milk or water. Obtain emergency medical help. Note to physicians - This product is highly injurious to all tissues, similar to that of ammonia or ammonia gas. Chemical pneumonitis, pulmonary edema, laryngeal edema and delayed scarring may occur following exposure.

INHALATION- Remove to fresh air. If breathing is labored administer oxygen. Call physician.

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#### 5. FIREFIGHTING MEASURES

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- FLAMMABILITY CLASSIFICATION - Combustible Liquid, Class IIIB
- FLASH POINT >270° F Pensky-Martin Flash Closed Cup
- LOWER EXPLOSIVE LIMITS N/A
- EXTINGUISHING MEDIA Foam, water fog, dry chemical - carbon dioxide preferred
- FIRE & EXPLOSIVE HAZARDS When mixed with strong acids (Organic/inorganic) strong oxidizing agents and bases
- SPECIAL FIREFIGHTING PROCEDURES - Use self contained breathing apparatus and impervious turn out gear. Retail expended liquids for letter disposal. Water spray may be used to cool fire-exposed tanks

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#### 6. ACCIDENTAL RELEASE MEASURES

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IN THE EVENT OF A SPILL - - Remove all possible sources of ignition or polymerization (see Section 5). Equip personnel with proper protection (see Section 7) Dike the spill to prevent from spreading. Collect for disposal. Use absorbent to soak up remainder of liquid. material will float on water. May be covered with foam or water fog if danger of ignition exists. Notify authorities as required by law.

WASTE DISPOSAL METHOD - Remove contaminated materials for disposal at a permitted facility using registered transports. Dilute aqueous waste is biodegradable. Incineration is the preferred method of disposal.

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#### 7. HANDLING, STORAGE AND PERSONAL PROTECTION

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- VENTILATION - Use and store only with adequate ventilation or use respiratory protection
- RESPIRATORY - If vapors are present, use a NIOSH/MSHA approved positive pressure, supplies air respirator.
- EYE PROTECTION - If potential for splashing is present, splash goggles or a full face shield should be worn.
- SKIN PROTECTION - DO NOT ALLOW SKIN CONTACT. If potential skin contact is present, impervious protection clothing should be worn. Neoprene coated fabric is recommended for this application.

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8. PHYSICAL AND CHEMICAL PROPERTIES

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VAPOR DENSITY -	No data
VAPOR PRESSURE	<1 mm Hg at 25° C (77F)
SOLUBILITY IN WATER	Negligible
APPEARANCE	Clear, pale yellow viscous liquid
ODOR -	Ammoniacial. Fishy

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9. STABILITY AND REACTIVITY

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STABILITY	Stable
HAZARDOUS POLYMERIZATION	Will autopolymerize at very high temperatures
HAZARDOUS DECOMPOSITION PRODUCTS	Fumes, carbon dioxide, carbon monoxide, acrid smoke, phenolics, aldehydes
CONDITIONS TO AVOID	High heat, amines, strong oxidizers, acids and bases
INCOMPATIBILITY (Materials to Avoid)	Strong acids, bases and oxidizers

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10. TRANSPORTATION AND REGULATORY INFORMATION

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DOT 49CFR172.101-102 CLASSIFICATION In gallons or smaller = Consumer Commodity ORM-D  
 In 4, 5 or larger containers see below - Corrosive

DOT SHIPPING NAME BULK SIZES	Polyamines. Liquid Corrosive n.o.s. (Modified Amines), Class 8, UN2735, PG III
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TCSA - On 40CFR710 Section 8b Chemical Substances Inventory and Canadian Domestic Sub- stances List

SARA/ TITLE III - Section 311/312 Immediate Health Hazard	Section 313 Listed Chemicals
None	

CERCLA - Not subject to any special reporting requirements	WHMIS Class E Corrosive
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This information contained above is given in good faith based on the best data available at this time. No warranty, expressed or implied is made. User assumes full responsibility for determining appropriate use and application of this product. For further information call Phoenix Resins 1-888-627-3769.