

**Welcome to
Hastings Plastics
Material Safety Data Sheets for Epoxy Resins**

<u>ALL-PURPOSE HARDENER</u>	<u>HAPEX 1227</u>
<u>FLOKOTE DECOUPAGE RESIN (FAST)</u>	<u>HAPEX 1230-5-1 "COMP A"</u>
<u>FLOKOTE DECOUPAGE RESIN (FAST)</u>	<u>HAPEX 1230-5-1 "COMP B"</u>
<u>FLOKOTE DECOUPAGE RESIN (SLOW)</u>	<u>HAPEX 1230-5-2 "COMP A"</u>
<u>FLOKOTE DECOUPAGE RESIN (SLOW)</u>	<u>HAPEX 1230-5-2 "COMP B"</u>
<u>LOW DENSITY RESIN</u>	<u>HAPEX 1231</u>
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<u>GENERAL PURPOSE RESINS</u>	<u>HAPEX 1290</u>

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You can print the data by selecting the sheets you want and printing that selection.

HASTINGS PLASTICS COMPANY

1704 Colorado Ave. Santa Monica, CA 90404 310-829-3449 FAX 310-828-6820

PRODUCT DATA
MSDS 1227
*Revised 10/15/98
Replaced 05/02/94

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HAPEX 1227

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME - HASTINGS PLASTICS COMPANY
PRODUCT SALES/INFO - (310) 829-3449
EMERGENCY PHONE NUMBER - (800) 424-9300
PRODUCT NAME - Hapex 1227
PRODUCT TYPE - Epoxy Hardener
CHEMICAL FAMILY AND
SYNONYMS - Aliphatic Polyaminoamide
HMIS RATING - Health - 2 Flammability - 1 Reactivity - 0 Protective equipment -
X

SECTION II - COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENTS

	EXPOSURE LIMITS				<u>MFR.</u>
	ACGIH		OSHA		
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>	
1,2-Ethanediamine, N,N'=Bis(2-Aminoethyl)- CAS# 112-24-3	NE	NE	NE	NE	NE
Fatty acids, C18-unsatd Dimers, Polymers with tall oil fatty acids and triethylenete-tramine. Cas# 68082-29-1	NE	NE	NE	NE	NE

NE = Not Established

SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

COLOR: -Yellow
ODOR: - Amine
PHYSICAL STATE: - Liquid
SOLUBILITY IN WATER: - 0.5% Very Slight
VAPOR PRESSURE: - <0.001 mm Hg at 20°C (68°F)
SPECIFIED GRAVITY: - 0.96 at 25°C (77°F)
BOILING POINT: - >200°C (>392°F)
DECOMPOSITION TEMPERATURE: - >200°C (>392°F)
pH: - Not Applicable
PERCENT VOLATILE: - Nil

SECTION IV - FIRST AID MEASURES

INGESTION: If swallowed, give at least 3-4 glasses of water but do not induce vomiting. Do not give anything by mouth to an unconscious or convulsing person.

SKIN: For skin contact, immediately wipe off affected area with dry towel. Then wash with large amounts of running water, and soap if available, for 15 minutes. Remove contaminated clothing and shoes. Get immediate medical attention. Discard or decontaminate clothing before re-use and destroy contaminated shoes.

INHALATION: If inhaled, remove from area to fresh air. If not breathing, give artificial respiration. Get immediate medical attention. If breathing is difficult, transport to medical care and if available, give supplemental oxygen.

EYES: For eye contact, immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. If physician is not available, flush for an additional 15 minutes. Get immediate medical attention.

OVEREXPOSURE EFFECTS: Overexposure to this material can result in chemical burns to the skin and eyes. Can cause irritant and allergic reactions to both skin and respiratory with symptoms such as rashes, wheezing, coughing and difficulty in breathing. Based on animals studies, a component in this product may have effects on the liver, kidney, brain and developing fetus.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Asthma, chronic respiratory disease, skin and eye conditions.

ADDITIONAL INFORMATION: Promptly remove wet contaminated non-impervious clothing. Wash before reuse.

SECTION V - FIRE FIGHTING MEASURES

FLASH POINT: >200°F(93°C)

FLASH POINT METHOD USED: Closed Cup

FIRE FIGHTING EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical, and water spray.

FIRE FIGHTING EQUIPMENT: Use self-contained breathing apparatus.

FIRE AND EXPLOSION HAZARDS: Decomposition and combustion products may be toxic.

SECTION VI - ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Avoid all personal contact. Take up with absorbent material. Shovel into sealable containers. Flush contaminated area with water.

SECTION VII - HANDLING AND STORAGE

PRECAUTIONS: Avoid contact with eyes, skin and clothing. Avoid breathing mist or vapor. Do not take internally. Use with adequate ventilation. Wear chemical splash goggles, impervious gloves and protective clothing when handling. Individuals should wash thoroughly after handling. Keep container closed when not in use. For manufacturing use only. (next page)

SECTION VIII - PERSONAL PROTECTION EQUIPMENT

SKIN: Wear impervious gloves.

RESPIRATORY PROTECTION: Organic chemical cartridge respirator.

EYE PROTECTION: Wear splash-proof chemical goggles or complete face shield.

VENTILATION: Good general mechanical ventilation recommended.

SECTION X - STABILITY AND REACTIVITY

STABILITY - Stable

INCOMPATIBILITY - Strong oxidizing agents, acids, and natural rubber.

HAZARDOUS DECOMPOSITION PRODUCTS - Carbon monoxide, carbon dioxide, aldehydes, nitrogen oxides and compounds.

HAZARDOUS POLYMERIZATION - Will not occur.

SECTION XI - TOXICOLOGICAL INFORMATION

ACUTE ORAL EFFECTS (LD50): (Rat) Greater than 5.0g/kg (polyamide resin)

ACUTE DERMAL TOXICITY (LD50): (Rabbit) 0.8g/kg (component)

SENSITIZATION: May cause skin and respiratory sensitization.

SKIN IRRITATION: (Rabbit) irritant.

EYE IRRITATION: (Rabbit) Severe irritant.

SECTION XII - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD - Dispose in accordance with federal, state, and local regulations.

SECTION XIII - TRANSPORTATION INFORMATION

DEPARTMENT OF TRANSPORTATION - Not regulated.

SECTION XIV - REGULATORY INFORMATION

OSHA STATUS - This Material Safety Data Sheet (MSDS) has been prepared in compliance with the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

TSCA INVENTORY STATUS - Chemical components listed on TSCA inventory.

SARA TITLE III: SECTION 313 TOXIC CHEMICAL(S) - This product does not contain a toxic chemical for Routine annual Toxic Chemical Release

Reporting

under Sec# 313 (40 CFR 372).

RCRA - Not a hazardous waste under RCRA (40 CFR 261).

CERCLA - Not listed.

CANADIAN INVENTORY STATUS (CEPA) - All components included on the Domestic Substance List (DSL).

(over)

NEW JERSEY RIGHT TO KNOW: The following is required composition information:

CAS NUMBER: 68082-29-1

CHEMICAL NAME: Fatty acids, C18-unsatd., dimers, polymers with tall oil fatty acids and triethylenetetramine.

CAS NUMBER: 112-24-3

CHEMICAL NAME: 1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-

COMMON NAME: Triethylenetetramine

PENNSYLVANIA RIGHT TO KNOW: The following is required composition information:

CAS NUMBER: 68082-29-1

CHEMICAL NAME: Fatty acids, C18-unsatd., dimers, polymers with tall oil fatty acids and triethylenetetramine

COMMENT: Not on Pennsylvania Hazardous Substance list.

CAS NUMBER: 112-24-3

CHEMICAL NAME: 1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-

COMMON NAME: Triethylenetetramine

COMMENT: Hazardous Substance

DISCLAIMER OF LIABILITY

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim liability for any use of this material. Information contained herein is believed to be true and accurate but all statements are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use and the suitability of the material for the user's purpose.

Prepared By: Joe Morales

F#170-21A

HASTINGS PLASTICS COMPANY

1704 Colorado Ave. Santa Monica, CA 90404 310-829-3449 FAX 310-828-6820

PRODUCT DATA
MSDS 1230-5-1
COMP "A"
* REVISED 6/1/99
REPLACES 12/11/98

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HAPEX 1230-5-1 COMP "A"

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME - HASTINGS PLASTICS COMPANY
PRODUCT INFORMATION AND SALE - (310) 829-3449
EMERGENCY PHONE NUMBER - (800) 424-9300
PRODUCT NAME - Hapex 1230-5-1 Component "A"
PRODUCT CODE NUMBER - 1230-5-1
CHEMICAL FAMILY - Epoxy Resin
CHEMICAL NAME - Modified Bisphenol A diglycidyl ether
FORMULA - Proprietary
D.O.T. CLASSIFICATION - Not regulated
HMIS: HEALTH - 2 FLAMMABILITY - 1 REACTIVITY - 1

SECTION II - HAZARDOUS INGREDIENTS

<u>COMPONENTS</u>	<u>%</u>	<u>CAS #</u>	<u>TLV</u>	<u>ACGIH OSHA</u>	
				<u>NE</u>	<u>PEL</u>
BISPHENOL A DIGLYCIDYL ETHER	90 - 98	25085-99-8	NE	NE	
AROMATIC HYDROCARBON (TOLUENE)	2 - 5	108-88-33	100 ppm	100 ppm	

NE = NOT ESTABLISHED

SECTION III - PHYSICAL DATA

APPEARANCE AND COLOR - Straw colored liquid.
ODOR - Aromatic odor.
BOILING POINT - N/A
VAPOR PRESSURE - N/A
VAPOR DENSITY - Nonvolatile
SOLUBILITY IN WATER - Nil
PERCENT VOLATILE
(By Weight) - .5% (54 grams per liter)
EVAPORATION RATE - Nonvolatile
SPECIFIC GRAVITY - 1.145

SECTION IV - FIRE AND HAZARD EXPLOSION DATA

FLASH POINT - >200 °F
FLAMMABLE LIMITS
(In Air % LEL) - Not Applicable
FLAMMABILITY CLASS - 3B
EXTINGUISHING MEDIA - Foam, Carbon dioxide, dry chemical or fog.
SPECIAL FIRE
FIGHTING PROCEDURES - Firefighter should wear goggles and self-contained breathing apparatus to avoid inhalation of smoke or vapors.
UNUSUAL FIRE AND EXPLOSION HAZARDS - None Known

SECTION V - HEALTH EFFECTS DATA

PERMISSIBLE EXPOSURE LEVEL - None Assigned

EFFECTS OF OVEREXPOSURE:

INHALATION - May cause nasal irritation, central nervous system depression or lung injury.

EYES - Mild to moderate irritation, possible minor temporary corneal injury.

SKIN - Mild irritation. May be a skin sensitizer.

EMERGENCY & FIRST AID PROCEDURES:

EYE CONTACT - Flush with water. Get medical attention if necessary.

SKIN CONTACT - Wash with soap and water. Remove and wash contaminated clothing before reuse.

INHALATION - If ill effects occur remove person to fresh air, keep that person warm and quiet and get medical attention if necessary.

INGESTION - Not likely a problem. If large amounts are swallowed, promptly induce vomiting and get medical attention.

PRIMARY ROUTE(S) OF

ENTRY - Inhalation, ingestion, skin and eye contact.

CARCINOGENICITY - This product does not contain 0.1% or more of any substance which is listed as carcinogen by NTP, IARC, or OSHA.

SECTION VI - REACTIVITY DATA

STABILITY - Stable

HAZARDOUS POLYMERIZATION - Will not occur

INCOMPATIBILITY - Strong oxidizers, acids, bases and epoxy hardeners under uncontrolled conditions.

HAZARDOUS DECOMPOSITION

PRODUCTS - Carbon monoxide, carbon dioxide, smoke. Other possible products unknown.

SECTION VII - SPILL OR LEAK PROCEDURES**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Ventilate area. Absorb spill with suitable absorbent materials and place into a closed container. For large spills, dike area and pump into closed containers. Prevent this material from entering waterways. Wear protective equipment during cleanup.

WASTE DISPOSAL METHOD:

At this time, this material or its containers would not be considered hazardous wastes as defined under the federal RCRA regulations (40 CFR 261) if discarded.

Care should be taken to ensure that the material or its containers are disposed of in an approved facility in accordance with current federal, state, and local regulations.

For further information, contact your state or local waste agency or the United States Environmental Protection Agency's RCRA hotline (1-800-424-9346 or 202-382-3000).

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION - Should be worn to avoid breathing spray mist, heated vapors or if TLV is exceeded.

PROTECTIVE GLOVES - Chemical-resistant plastic or rubber.

EYE PROTECTION - Chemical goggles.

OTHER PROTECTIVE EQUIPMENT - As Required to prevent wetting skin or clothing.

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SECTION IX - SPECIAL PRECAUTIONS & STORAGE DATA

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: This material may cause sensitization.

Do not get in eyes, on skin or clothing. Do not allow contaminated clothing to contact skin. Avoid contact with vapors or fumes.

OTHER PRECAUTIONS: Wear protective equipment.

SECTION X - REGULATORY INFORMATION

SARA HAZARD CLASSIFICATION: This material has been categorized as having the following hazard(s) as defined by SARA Title III Regulations (40 CFR 370): acute.

SARA SECTION 313 LISTED INGREDIENTS: This material does not contain any substance which is subject to the reporting requirements of 40 CFR 372.

DOT PROPER SHIPPING NONE: Not regulated by DOT.

UN NUMBER: None

DISCLAIMER OF LIABILITY

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Prepared By: Joe Morales

HASTINGS PLASTICS COMPANY

1704 Colorado Ave. Santa Monica, CA 90404 310-829-3449 FAX 310-828-6820

PRODUCT DATA
MSDS 1230-5-1 COMP"B"
*REVISED 6/1/99
REPLACES 12/21/98

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HAPEX 1230-5-1 COMP "B"

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME - HASTINGS PLASTICS COMPANY
PRODUCT INFORMATION AND SALE - (310) 829-3449
EMERGENCY PHONE NUMBER - (800) 424-9300
PRODUCT NAME - Hapex 1230-5-1 Comp "B"
CHEMICAL FAMILY - Epoxy Resin Hardener
FORMULA - Proprietary
HMIS Rating: - Health = 2 Fire = 1 Reactivity = 1

SECTION II - HAZARDOUS INGREDIENTS

<u>COMPONENTS</u>	<u>%</u>	<u>CAS #</u>	<u>EXPOSURE LIMITS</u>
MODIFIED POLYAMINES	100.0	PROPRIETARY	NONE ASSIGNED
PHENOL 2,4,6- Tris[(dimethylamino)methyl]-	3 - 5	90-72-2	NONE ASSIGNED
AROMATIC HYDRO CARBON (TOULENE)	3 - 5	108-88-33	100 ppm

SECTION III - PHYSICAL DATA

APPEARANCE AND ODOR - Straw colored liquid, amine odor.
BOILING POINT (°F) - N/A.
VAPOR PRESSURE (mm HG) - N/A
VAPOR DENSITY - Nonvolatile
SPECIFIC GRAVITY (H₂O=1) - .960
PERCENT VOLATILE (By Volume (%)) - 4.75% (18 grams per liter)
EVAPORATION RATE - Nonvolatile

SECTION IV - FIRE AND HAZARD EXPLOSION DATA

FLASH POINT °F (Method Used) - >200 °F (SFCC)
FLAMMABILITY CLASS. - Class 3B.
LEL - N/A
EXTINGUISHING MEDIA - Carbon dioxide, dry chemical, foam.
SPECIAL FIRE FIGHTING PROCEDURES - Firefighters should wear self contained breathing apparatus to avoid inhalation of smoke or vapors.
UNUSUAL FIRE AND EXPLOSION HAZARDS - None known. Closed containers may rupture when exposed to extreme heat.

SECTION V - HEALTH EFFECTS DATA

PERMISSIBLE EXPOSURE LEVEL:

Not established.

(over)

EFFECTS OF OVEREXPOSURE:

INHALATION - May cause nasal irritation, central nervous system depression or lung injury.

EYE CONTACT - This product may contain alkaline materials that can cause chemical burns to the eyes. Eye damage may be irreversible.

SKIN CONTACT - May be corrosive or highly irritation to skin. Repeated contact may cause sensitization and/or dermatitis.

SKIN ABSORPTION - No specific information is available; however, this material may contain aliphatic amines which may be absorbed through the skin.

EMERGENCY & FIRST AID PROCEDURES:

INHALATION - If ill effects occur remove person to fresh air, keep that person warm and quiet and get medical attention promptly.

SKIN - Promptly wipe clean with paper or cloths and wash with soap and water. Remove and wash any contaminated clothing before reuse.

INGESTION - Not likely a problem. If large amounts are swallowed get medical attention immediately.

EYES - Flush with plenty of water and get medical attention.

PRIMARY ROUTE(S) OF ENTRY - Inhalation, ingestion, skin and eye contact.

CARCINOGENICITY - This material does not contain 0.1% or more of any substance which is listed as a carcinogen by NTP, IARC, or OSHA.

SECTION VI - REACTIVITY DATA**STABILITY**

- Stable.

CONDITIONS TO AVOID

- Warm storage, ignition sources.

HAZARDOUS POLYMERIZATION

- Will not occur.

INCOMPATIBILITY

(Material To Avoid)

- Strong oxidizers, acids, bases and epoxy resins under uncontrolled conditions.

HAZARDOUS DECOMPOSITION**PRODUCTS**

- Carbon monoxide, carbon dioxide, smoke. Other possible products unknown

SECTION VII - SPILL OR LEAK PROCEDURES**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Ventilate area. Absorb spill with suitable absorbent material and place into a closed container. For large spills, dike area and pump into closed containers. Prevent this material from entering waterways. Wear protective equipment during cleanup.

WASTE DISPOSAL METHOD:

At this time, this material or its containers would not be considered hazardous wastes as defined under the federal RCRA regulations (49CFR 261) if discarded.

Care should be taken to ensure that the material or its containers are disposed of in a approved facility in accordance with current federal, state, and local regulations.

For further information, contact your state or local waste agency or the United States Environmental Protection Agency's RCRA hotline (1-800-424-9346 or 202-382-3000).

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SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION	-	Should be worn to avoid breathing spray mist, heated vapors or if TLV is exceeded.
VENTILATION	-	Local exhaust and general ventilation recommended.
PROTECTIVE GLOVES	-	Chemical resistant plastic or rubber.
EYE PROTECTION	-	Chemical goggles.
OTHER PROTECTIVE EQUIPMENT	-	As required to prevent wetting skin or clothing.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING: This material may cause sensitization. Do not get in eyes, on skin or clothing. Do not allow contaminated clothing to contact skin. Avoid contact with vapors or fumes.

OTHER PRECAUTIONS: Wear protective equipment.

SECTION X - SHIPPING INFORMATION

D.O.T. SHIPPING NAME	-	Polyamines, liquid, N.O.S. (Nonylphenol Aminoethylpiperazine)
D.O.T. HAZARD CLASS	-	Corrosive material.
D.O.T. I.D. NUMBER	-	8, UN2735, III

REGULATORY INFORMATION:

None

SARA HAZARD CLASSIFICATION:

This material has been categorized as having the following hazard(s) as defined by SARA Title III Regulations (40 CFR 370): Acute.

SARA SECTION 313 LISTED INGREDIENTS:

This material does not contain any substance which is subject to the reporting requirements of 40 CFR 372.

DISCLAIMER OF LIABILITY

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim liability for any use of this material. Information contained herein is believed to be true and accurate but all statements are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use and the suitability of the material for the user's purpose.

Prepared By: Joe Morales

F#170-21A

HASTINGS PLASTICS COMPANY

PRODUCT DATA
MSDS 1230-5-2 COMP
"A"
ISSUED 08/14/03

1704 Colorado Ave. Santa Monica, CA 90404 310-829-3449 FAX 310-828-6820

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HAPEX 1230-5-2 COMP A

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME	- HASTINGS PLASTICS COMPANY
PRODUCT SALES	- (310) 829-3449
EMERGENCY PHONE NUMBER	- (800) 424-9300
PRODUCT NAME	- Hapex 1200A
PRODUCT CODE NUMBER	- 1230-5-2 COMP A
CHEMICAL FAMILY	- Epoxy Resin
CHEMICAL NAME	- Modified Diethyl Ether of Bisphenol A
FORMULA	- Proprietary
D.O.T. CLASSIFICATION	- Not regulated
HMIS Rating:	Health - 2 Fire - 1 Reactivity - 0

SECTION II - HAZARDOUS INGREDIENTS

COMPONENTS CAS # % TLV (units)

BISPHENOL A DIGLYCIDYL ETHER	25085-99-8	70-78	Not Established
O - CRESYL GLYCIDYL ETHER	26447-14-3	20-25	Not Established

CARCINOGENICITY: This chemical is not considered to be carcinogenic.

HAZARD STATEMENT: This material safety data sheet has been prepared in compliance with Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

SECTION III - PHYSICAL DATA

APPEARANCE AND COLOR	-	Straw colored liquid.
ODOR	-	Mild aromatic odor.
BOILING POINT	-	N/A
VAPOR PRESSURE	-	N/A.
VAPOR DENSITY	-	Nonvolatile
SOLUBILITY IN WATER	-	Nil.
PERCENT VOLATILE (By Volume)	-	0
EVAPORATION RATE	-	N/A.
SPECIFIC GRAVITY	-	1.14 - 1.19

SECTION IV - FIRE AND HAZARD EXPLOSION DATA

FLASH POINT °F (Method Used)	-	>200 closed cup
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FLAMMABLE LIMITS

(In Air % LEL) - N/A.

EXTINGUISHING MEDIA - Foam, carbon dioxide, dry chemical, water spray. (Over)

SPECIAL FIRE

FIGHTING PROCEDURES - Firefighters should wear goggles and self-contained breathing apparatus to avoid inhalation of smoke vapors

UNUSUAL FIRE AND

EXPLOSION HAZARDS - Decomposition and combustion products may be toxic.

SECTION V - HEALTH EFFECTS DATA

THRESHOLD LIMIT VALUE - None assigned

OVEREXPOSURE-CHRONIC: Mice receiving skin applications of the Diglycidyl Ether of Bisphenol A or essentially identical resins for two years have yielded very limited evidence of weak carcinogenicity. The published report on this study concludes that the resin product "is not a systemic carcinogen when applied to the skin of CF 1 mice" and the tumor data "was of no biological importance". Based on all available data, IRAC (International Agency For Research On Cancer) has concluded in 1988 that DGEBA is not classified as a carcinogen.

EFFECTS OF OVEREXPOSURE:

EYES - Mild to moderate irritation, possible minor temporary corneal injury.

SKIN - Not likely to be absorbed in toxic amounts.

INHALATION - May cause nasal irritation, central nervous system depression or lung injury.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Allergy, Eczema, Dermatitis

EMERGENCY & FIRST AID PROCEDURES:

EYE CONTACT - Flush with water. Get medical attention if necessary.

SKIN CONTACT - Wash with soap and water. Remove and wash contaminated clothing.

INHALATION - If ill effects occur remove person to fresh air, keep that person warm and quiet and get medical attention promptly.

INGESTION - If conscious, give large quantities of water. get immediate medical attention.

OTHER - Promptly remove wet contaminated clothing. Wash before reuse.

PRIMARY ROUTE(S) OF EXPOSURE

ORAL LD50 - (RAT) >5,000 mg/kg

DERMAL LD50 - (RAT) >2100 mg/kg

SKIN IRRITATION - (RABBIT) Mild Irritation

EYE IRRITATION - (RABBIT) None

SENSITIZATION - (GUINEA PIG) Sensitizer

INHALATION LC50 - (RAT) 6.1 mg/L for a 4 hour exposure; toxic by inhalation (minor ingredient)

CARCINOGENICITY:

This product does not contain 0.1% or more of any substance which is listed as carcinogen by NTP, IARC or OSHA.

SECTION VI - REACTIVITY DATA

STABILITY - Stable.

HAZARDOUS POLYMERIZATION - Will not occur.

INCOMPATIBILITY - Strong oxidizing agents.

HAZARDOUS DECOMPOSITION

PRODUCTS - Carbon monoxide, carbon dioxide, aldehydes.

CONDITIONS TO AVOID - Elevated temperatures, strong acids & bases in bulk.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Ventilated area. Absorb spill with suitable absorbent material and place into a closed container. For large spills, dike area and pump into closed containers. Prevent this material from entering waterways. Wear protective equipment during cleanup.

WASTE DISPOSAL METHOD:

At this time, this material or its containers would not be considered hazardous wastes as defined under the federal RCRA regulations (40 CFR 261) if discarded. Care should be taken to ensure that the material or its containers are disposed of in an approved facility in accordance with current Federal, State, and Local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION - Use NIOSH approved respirator suitable for organic vapors, if required.
 VENTILATION - Local exhaust and general ventilation recommended
 PROTECTIVE GLOVES - Rubber or polyethylene.
 EYE PROTECTION - Safety glasses with side shields.
 OTHER PROTECTIVE EQUIPMENT - Protective equipment to avoid personal contact.

SECTION IX - SPECIAL PRECAUTIONS & STORAGE DATA

HMIS CODE - HEALTH: 2 FIRE: 1 REACTIVITY: 0

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING :

This material may cause sensitization. Do not get in eyes, on skin or clothing. Do not allow contaminated clothing to contact skin. Avoid contact with vapors or fumes. Store in tightly closed containers in cool, dry area. Wash thoroughly after handling.

SECTION X - SUPPLEMENTAL INFORMATION

REGULATORY INFORMATION: None

SARA HAZARD CLASSIFICATION: This material has been categorized as having the following hazard(s) as defined by SARA Title III regulations (40 CFR 370): acute

SARA SECTION 313 LISTED INGREDIENTS: This material does not contain any substance which is subject to the reporting requirements of 40 CFR 372.

DOT PROPER SHIPPING NAME: Not regulated by DOT

UN NUMBER: None

RCRA STATUS: Not a hazardous waste under RCRA (40 CFR 261)

CERCLA STATUS: Not listed

TSCA INVENTORY STATUS: Chemical components listed on TSCA inventory.

NEW JERSEY RIGHT TO KNOW LABELING INFORMATION - This product contains the following :

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>
Phenol, 4-4'-(1-Methylethylidene)	25068-38-6
Bis-, Polymer with (Chloromethyl)Oxirane	
Oxirane, {(Methylphenoxy)Methyl}	26447-14-3

PENNSYLVANIA RIGHT TO KNOW ACT - The following is required composition information:

<u>I. CHEMICAL NAME</u>	<u>CAS NUMBER</u>
Phenol, 4-4'-(1-Methylethylidene)	25068-38-6
Polymer with (Chloromethyl)oxirane	

<u>COMMON NAME</u>	<u>COMMENTS</u>
Bisphenol A Epoxy Resin	Not on Pennsylvania Hazardous Substance List

<u>II. CHEMICAL NAME</u>	<u>CAS NUMBER</u>
Oxirane, {(Methylphenoxy)Methyl}	26447-14-3
<u>COMMON NAME</u>	<u>COMMENTS</u>
Cresyl Glycidyl Ether	Not on Pennsylvania Hazardous Substance List

(OVER)

HAZARDOUS PRODUCTS INFORMATION ACT - This product contains the following ingredients which are Controlled Products and/or on the Ingredient Disclosure List (Canadian HPA section 13 and 14):

<u>COMPONENTS</u>	<u>CAS NUMBER</u>	<u>AMOUNT % w/w</u>
Reaction product of	25085-99-8	70 - 78%

DISCLAIMER OF LIABILITY

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim liability for any use of this material. Information contained herein is believed to be true and accurate but all statements are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use and the suitability of the material for the user's purpose.

epichloroh
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bisphenol
A

Prepared By: Joe Morales

F#170-21A

HASTINGS PLASTICS COMPANY

1704 Colorado Ave. Santa Monica, CA 90404 310-829-3449 FAX 310-828-6820

PRODUCT DATA
MSDS 1230-5-2 COMP"B"
*Revised 05/01/09
Replaced 08/14/03

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HAPEX 1230-5-2 COMP "B"

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME - HASTINGS PLASTICS COMPANY
PRODUCT INFORMATION AND SALE - (310) 829-3449
EMERGENCY PHONE NUMBER - (800) 424-9300
PRODUCT NAME - Hapex 1230-5-2 Comp "B"
CHEMICAL FAMILY - Epoxy Resin Hardener
FORMULA - Proprietary
HMIS Rating: - Health = 2 Fire = 1 Reactivity = 1

SECTION II - HAZARDOUS INGREDIENTS

<u>COMPONENTS</u>	<u>%</u>	<u>CAS #</u>	<u>EXPOSURE LIMITS</u>
Phenol, nonyl	62-65	84852-15-3	NONE ASSIGNED
Poly(oxy(methyl-1-2-ethanedyl),alpha-(2-aminomethylethyl)omega-(2-aminomethyethoxyl)-	30-32	9046-10-0	NONE ASSIGNED
N-eminoethylpiperazine	3-5	140-31-8	

SECTION III - PHYSICAL DATA

APPEARANCE AND ODOR - Straw colored liquid, amine odor.
BOILING POINT (°F) - 432°
VAPOR PRESSURE (mm HG) - <.1 mmhg at 20 c (68 F)
VAPOR DENSITY (Air = 1) - > 1
SPECIFIC GRAVITY (H₂O=1) - .960
V.O.C Content - 7 % by ASTM D 2369
(By Volume (%)) - 4.75%(18 grams per liter)
Solubilty in water(%) - 3-4

SECTION IV - FIRE AND HAZARD EXPLOSION DATA

FLASH POINT °F
(Method Used) - >200 °F (SFCC)
FLAMMABLE LIMITS % (lower & upper) - not determined
LEL - N/A
EXTINGUISHING MEDIA - Carbon dioxide, dry chemical, foam.
SPECIAL FIRE FIGHTING PROCEDURES - Firefighters should wear special protective clothing & positive pressure self contained breathing apparatus to avoid inhalation of smoke or vapors.
UNUSUAL FIRE AND EXPLOSION HAZARDS - None known. .

SECTION V - HEALTH EFFECTS DATA

PERMISSIBLE EXPOSURE LEVEL:

Not established.

EFFECTS OF OVEREXPOSURE:

(over)

INHALATION - May cause nasal irritation, central nervous system depression or lung injury.

EYE CONTACT - Causes irritation, experienced as pain, with excess blinking and tear production, and seen as extreme redness and swelling of the eye and chemical burns of the eye. Severe eye damage may cause blindness.

SKIN CONTACT - May be corrosive or highly irritating to skin. Repeated contact may cause sensitization and/or dermatitis.

INGESTION - Causes burning of mouth, throat, and stomach with abdominal and chest pain, nausea, vomiting, diarrhea, thirst, weakness, and collapse. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

EMERGENCY & FIRST AID PROCEDURES:

INHALATION - If ill effects occur remove person to fresh air, keep that person warm and quiet and get medical attention promptly.

SKIN - Promptly wipe clean with paper or cloths and wash with soap and water. Remove and wash any contaminated clothing before reuse.

INGESTION - If person is conscious and can swallow, immediately give two glasses of water (16oz), but do not induce vomiting. This material is corrosive. If vomiting occurs, give fluids again. Have a physician determine if condition of patient will permit induction of vomiting or evacuation of stomach. Do not give anything by mouth to an unconscious person

EYES - Flush with plenty of water for 15 minutes and get medical attention.

PRIMARY ROUTE(S) OF ENTRY - Inhalation, ingestion, skin and eye contact.

CARCINOGENICITY - This material does not contain 0.1% or more of any substance which is listed as a carcinogen by NTP, IARC, or OSHA.

SECTION VI - REACTIVITY DATA

STABILITY

- Stable.

CONDITIONS TO AVOID

- Reacts violently with acids.

HAZARDOUS POLYMERIZATION

- Will not occur.

INCOMPATIBILITY

(Material To Avoid)

- Strong oxidizers, acids, bases and epoxy resins under uncontrolled conditions.

HAZARDOUS DECOMPOSITION

PRODUCTS

- Toxic levels of ammonia, combustion products of nitrogen, carbon monoxide, carbon dioxide, irritating aldehydes and ketones may be formed on burning in a limited air supply.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Ventilate area. Absorb spill with suitable absorbent material and place into a closed container. For large spills, dike area and pump into closed containers. Prevent this material from entering waterways. Wear protective equipment during cleanup.

WASTE DISPOSAL METHOD:

At this time, this material or its containers would not be considered hazardous wastes as defined under the federal RCRA regulations (49CFR 261) if discarded.

Care should be taken to ensure that the material or its containers are disposed of in a approved facility in accordance with current federal, state, and local regulations.

For further information, contact your state or local waste agency or the United States Environmental Protection Agency's RCRA hotline (1-800-424-9346 or 202-382-3000).

(next page)

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

- Should be worn to avoid breathing spray mist, heated vapors or

VENTILATION	-	if TLV is exceeded. Local exhaust and general ventilation recommended.
PROTECTIVE GLOVES	-	Chemical resistant plastic or rubber.
EYE PROTECTION	-	Chemical goggles.
OTHER PROTECTIVE EQUIPMENT	-	As required to prevent wetting skin or clothing.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING: This material may cause sensitization. Do not get in eyes, on skin or clothing. Do not allow contaminated clothing to contact skin. Avoid contact with vapors or fumes.

OTHER PRECAUTIONS: Wear protective equipment.

SECTION X - SHIPPING INFORMATION

D.O.T. SHIPPING NAME	-	Amines, liquid, N.O.S. (Nonylphenol Aminoethylpiperazine)
D.O.T. HAZARD CLASS	-	Corrosive material.
D.O.T. I.D. NUMBER	-	8, UN2735, III

REGULATORY INFORMATION:

None

SARA HAZARD CLASSIFICATION:

This material has been categorized as having the following hazard(s) as defined by SARA Title III Regulations (40 CFR 370): Acute.

SARA SECTION 313 LISTED INGREDIENTS:

This material does not contain any substance which is subject to the reporting requirements of 40 CFR 372.

DISCLAIMER OF LIABILITY

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim liability for any use of this material. Information contained herein is believed to be true and accurate but all statements are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use and the suitability of the material for the user's purpose.

No Changes at this time

Prepared By: Joe Morales

F#170-21A

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HAPEX 1231

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME - HASTINGS PLASTICS COMPANY
PRODUCT INFORMATION AND SALE - (310) 829-3449
EMERGENCY PHONE NUMBER - (800) 424-9300
TRADE NAME - Hapex 1231
CHEMICAL FAMILY - Epoxy Resin
CHEMICAL NAME - Formulated Epoxy Resin containing inert additives.
D.O.T. CLASSIFICATION - Not regulated
H.M.I.S. HEALTH - 2 FIRE - 1 REACTIVITY - 1

SECTION II - HAZARDOUS INGREDIENTS

<u>COMPONENTS</u>	<u>CAS #</u>	<u>%</u>	<u>TLV (units)</u>
O-CRESYL Diglycidyl Ether	26447-14-3	N/A	N/E
PHENOLIC RESIN	9003-35-4	20-26	Not established
BISPHENOL A DIGLYCIDYL ETHER	25085-99-8	50-55	Not established

SECTION III - PHYSICAL DATA

APPEARANCE AND COLOR - Brown colored paste. Mild aromatic odor.
ODOR - Mild aromatic odor.
BOILING POINT - None.
VAPOR PRESSURE - N/A.
VAPOR DENSITY - N/A.
SPECIFIC GRAVITY (H₂O=1) - .45 - .50
SOLUBILITY IN WATER - Nil.
PERCENT VOLATILE (By Volume) - 0
EVAPORATION RATE - N/A.

SECTION IV - FIRE AND HAZARD EXPLOSION DATA

FLAMMABILITY CLASS - 3B
FLASH POINT - >200 Deg F
FLAMMABLE LIMITS (In Air % LEL) - N/A.
EXTINGUISHING MEDIA - Foam, Carbon dioxide, dry chemical or fog.
SPECIAL FIRE FIGHTING PROCEDURES - Firefighters should wear goggles and self-contained breathing apparatus to avoid inhalation of smoke or vapors.

UNUSUAL FIRE AND EXPLOSION HAZARDS - None.

SECTION V - HEALTH EFFECTS DATA

THRESHOLD LIMIT VALUE - LD₅₀ for rats: greater than 2000 mg/kg.

EFFECTS OF OVEREXPOSURE:

EYES - Minor transient irritation. No corneal injury likely.

SKIN - Only minor irritation. May be a skin sensitizer.

INHALATION - None likely unless heated to high temperatures.

EMERGENCY & FIRST AID PROCEDURES:

EYE CONTACT - Flush with water. Get medical attention if necessary.

SKIN CONTACT - Wash with soap and water. Remove and wash contaminated clothing before reuse.

INHALATION - If ill effects occur remove person to fresh air, keep that person warm and quiet and get medical attention necessary.

INGESTION - Not likely a problem. If large amounts are swallowed, promptly induce vomiting and get medical attention.

SECTION VI - REACTIVITY DATA

STABILITY - Stable under normal conditions.

HAZARDOUS POLYMERIZATION - Will not occur.

INCOMPATIBILITY - Strong oxidizers, acids, bases and epoxy hardeners under uncontrolled conditions.

HAZARDOUS DECOMPOSITION

PRODUCTS - Carbon monoxide, carbon dioxide, smoke. Other possible products unknown.

CONDITIONS TO AVOID - Heat and warm storage.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Ventilate area. Absorb spill with suitable absorbent material and place into a closed container. For large spills, dike area and pump into closed containers. Prevent this material from entering waterways. Wear protective equipment during cleanup.

WASTE DISPOSAL METHOD: At this time, this material or its containers would not be considered hazardous wastes as defined under the federal RCRA regulations (40 CFR 261) if discarded. Care should be taken to ensure that the material or its containers are disposed of in an approved facility in accordance with current federal, state, and local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION - None usually necessary under most industrial operating conditions.

MECHANICAL - Good general ventilation usually adequate.

PROTECTIVE GLOVES - Rubber or polyethylene.

EYE PROTECTION - Safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT - Clean long leg and long sleeve clothing.

SECTION IX - REGULATORY INFORMATION

STATUS ON SUBSTANCE LISTS: The concentrations shown are maximum or ceiling levels (weight %) to be used for calculations for regulations. Trade Secrets are indicated by "TS".

(next page)

FEDERAL EPA

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response of release of quantities of Hazardous Substances Equal to or greater than the reportable quantities (RQs) in 40 CFR 302.4.

Components present in this product at a level which could require reporting under the statute are:

*** None ***

Superfund Amendments and Reauthorization**Act of 1986 (SARA) Title III**

requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312).

Components present in this product at a level which could require reporting under the statute are:

*** None ***

Superfund Amendments and Reauthorization**Act of 1986 (SARA) Title III**

requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all MSDs that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

*** None ***

STATE RIGHT-TO-KNOW**CALIFORNIA Proposition 65**

This product contains trace quantities of formaldehyde, which the State of California has found to cause cancer.

MASSACHUSETTS Right-to-Know, Substance List (MSL) Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

HAZARDOUS SUBSTANCES (=>1%)**UPPER BOUND**

CHEMICAL	CAS NUMBER	CONCENTRATION %
Phenol	108-95-2	0.01
Formaldehyde	50-00-0	0.001

PENNSYLVANIA Right-to-Know, Substance List (MSL) Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

None

Toxic Substances Control Act(TSCA) STATUS:

The ingredients of this product are on the TSCA inventory.

CALIFORNIA SCAQMD RULE 443.1 VOC'S:

None

(over)

SECTION X - SPECIAL PRECAUTIONS & STORAGE DATA

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Practice good housekeeping to avoid all skin contact and to avoid breathing vapors, especially those generated when material is heated.

DISCLAIMER OF LIABILITY

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim liability for any use of this material. Information contained herein is believed to be true and accurate but all statements are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use and the suitability of the material for the user's purpose.

No Changes at this time

Prepared By: Joe Morales

F#170-21A

HASTINGS PLASTICS COMPANY

PRODUCT DATA
MSDS 1240-1
*Revised 4/19/99
Replaces 6/24/91

1704 Colorado Ave. Santa Monica, CA 90404 310-829-3449 FAX 310-828-6820

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HAPEX 1240-1

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME	- HASTINGS PLASTICS COMPANY
PRODUCT SALES AND INFORMATION	- (310) 829-3449
EMERGENCY PHONE NUMBER	- (800) 424-9300
PRODUCT NAME	- Hapex 1240-1
PRODUCT CODE NUMBER	- 1240-1
CHEMICAL FAMILY	- Epoxy Resin
CHEMICAL NAME	- Modified Bisphenol A diglycidyl ether
FORMULA	- Proprietary
D.O.T. CLASSIFICATION	- Not regulated
HMIS: HEALTH - 2 FLAMMABILITY - 1 REACTIVITY - 2	

SECTION II - HAZARDOUS INGREDIENTS

<u>COMPONENTS</u>	<u>%</u>	<u>CAS # TLV</u>	<u>ACGIH</u>	<u>OSHE</u>
			<u>PEL</u>	
FURFURAL: 2 FURFLDEHYDE	2 - 3	98-01-1	2 PPM (SKIN)	5 PPM(SKIN)
ETHYLENE GLYCOL MONO ETHYL ETHER	4 - 6	110-80-5	5 PPM (SKIN)	200 PPM(SKIN)
LIMESTONE	10 - 12	1317-65-3	10MG/MF	5MG/MF
BISPHENOL A DIGLYCIDYL ETHER	7 0 - 80	25085-99-8	N/E	N/E

SECTION III - PHYSICAL DATA

APPEARANCE AND COLOR	- Blue-colored liquid.
ODOR	- Mild aromatic odor.
BOILING POINT	- None.
VAPOR PRESSURE	- N/A.
VAPOR DENSITY	- N/A.
SOLUBILITY IN WATER	- Nil.
PERCENT VOLATILE (By Volume)	- 2
EVAPORATION RATE	- N/A.
SPECIFIC GRAVITY	- 1.23 - 1.35

SECTION IV - FIRE AND HAZARD EXPLOSION DATA

FLASH POINT - >200 °F
FLAMMABLE LIMITS (In Air % LEL) - Not Applicable

EXTINGUISHING MEDIA - Foam, Carbon dioxide, dry chemical or fog.
SPECIAL FIRE FIGHTING PROCEDURES - Firefighter should wear goggles and self-contained breathing apparatus to avoid inhalation of smoke or vapors.

UNUSUAL FIRE AND EXPLOSION HAZARDS - None Known

(over)

SECTION V - HEALTH EFFECTS DATA

PERMISSIBLE EXPOSURE LEVEL - None Assigned

EFFECTS OF OVEREXPOSURE:

EYES - Mild to moderate irritation, possible minor temporary corneal injury.

SKIN - Mild irritation. May be a skin sensitizer.

INHALATION - May cause nasal irritation, central nervous system depression or lung injury.

EMERGENCY & FIRST AID PROCEDURES:

EYE CONTACT - Flush with water. Get medical attention if necessary.

SKIN CONTACT - Wash with soap and water. Remove and wash contaminated clothing before reuse.

INHALATION - If ill effects occur remove person to fresh air, keep that person warm and quiet and get medical attention if necessary.

INGESTION - Induce vomiting and consult a physician.

PRIMARY ROUTE(S) OF ENTRY - Inhalation, ingestion, skin and eye contact.

CARCINOGENICITY - This product does not contain 0.1% or more of any substance which is listed as carcinogen by NTP, IARC, or OSHA.

SECTION VI - REACTIVITY DATA

STABILITY - Stable

HAZARDOUS POLYMERIZATION - Will not occur

INCOMPATIBILITY - Strong oxidizers, acids, bases and epoxy hardeners under uncontrolled conditions.

HAZARDOUS DECOMPOSITION PRODUCTS - Carbon monoxide, carbon dioxide, smoke. Other possible products unknown.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Ventilate area. Absorb spill with suitable Broadcast absorbent materials, soak up resin and discard.

WASTE DISPOSAL METHOD: Burn in adequate incinerator or bury in approved landfill.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION - None usually necessary under most industrial operating conditions.

MECHANICAL - Good general ventilation usually adequate.

PROTECTIVE GLOVES - Rubber or polyethylene.

EYE PROTECTION - Safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT - Clean long leg and long sleeve clothing.

SECTION IX - SPECIAL PRECAUTIONS & STORAGE DATA

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: This material may cause sensitization. Do not get in eyes, on skin or clothing. Do not allow contaminated clothing to contact skin. Avoid contact with vapors or fumes.

OTHER PRECAUTIONS: Wear protective equipment.

SECTION X - REGULATORY INFORMATION

SARA HAZARD CLASSIFICATION:

This material has been categorized as having the following hazard(s) as defined by SARA Title III Regulations (40 CFR 370): acute.

(next page)

SARA SECTION 313 LISTED INGREDIENTS:

This material does not contain any substance which is subject to the reporting requirements of 40 CFR 372.

DOT PROPER SHIPPING NAME: Not regulated by DOT.

UN NUMBER: None

DISCLAIMER OF LIABILITY

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim liability for any use of this material. Information contained herein is believed to be true and accurate but all statements are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use and the suitability of the material for the user's purpose.

Prepared By: Joe Morales

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HAPEX 1240-51

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME	- HASTINGS PLASTICS COMPANY
PRODUCT INFORMATION\SALES	- (310) 829-3449
EMERGENCY PHONE NUMBER	- (800) 424-9300
PRODUCT NAME	- Hapex 1240-51
PRODUCT CODE NUMBER	- Hapex 1240-51
CHEMICAL FAMILY	- Epoxy Resin
CHEMICAL NAME	- Modified Bisphanol A Diglycidyl Ether
FORMULA	- Proprietary
D.O.T. CLASSIFICATION	- Not regulated
HMIS Rating:	Health - 2 Fire - 1 Reactivity - 0

SECTION II - HAZARDOUS INGREDIENTS

<u>COMPONENTS</u>	<u>CAS #</u>	<u>%</u>	<u>TLV</u>	<u>PEL</u>
BISPHENOL A DIGLYCIDYL ETHER	25085-99-8	36-38	N/E	N/E
SILICA	112945-52-5	5-6	N/E	N/E
O-CRESYL GLYCIDYL ETHER	26447-14-3	12-14	N/E	N/E
AMORPHOUS, FUMED, CRYST.-FREE FELDSPAR	14808-60-7	32-38	0.1mg/m ³	0.1mg/m ³

Feldspar, as reported on this Company's MSDS is an anhydrous, inorganic, naturally occurring igneous mineral rock (sodium, potassium calcium, aluminum silicate) devoid of any asbestos minerals or acicular particles. These products contain crystalline silica, as quartz up to 13% dry weight. It is non-flammable and non-toxic and does not begin to fuse until 1950°F (1065°C).

CARCINOGENICITY: IARC Monograph VOLUME 42, 1987 concludes that "there is limited evidence for the carcinogenicity of crystalline silica to humans." IARC classification 2A. The NTP, in the Sixth Annual Report on Carcinogens, 1991, has added crystalline silica to its list of substances that are "reasonably anticipated to be carcinogens".

HAZARD STATEMENT: This material safety data sheet has been prepared in compliance with Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

SECTION III - PHYSICAL DATA

APPEARANCE AND COLOR	- Translucent Cloudy Paste
ODOR	- Mild aromatic odor.
BOILING POINT	- N/A
VAPOR PRESSURE	- N/A.
VAPOR DENSITY	- Nonvolatile
SOLUBILITY IN WATER	- Nil.
PERCENT VOLATILE (By Volume)	- 0
EVAPORATION RATE	- N/A.
SPECIFIC GRAVITY	- 1.14 - 1.19

SECTION IV - FIRE AND HAZARD EXPLOSION DATA

FLASH POINT °F (Method Used) - >200 closed cup

FLAMMABLE LIMITS (In Air % LEL) - N/A.

EXTINGUISHING MEDIA - Foam, carbon dioxide, dry chemical, water spray.

SPECIAL FIRE FIGHTING PROCEDURES - Firefighters should wear goggles and self-contained breathing apparatus to avoid inhalation of smoke vapors.

UNUSUAL FIRE AND EXPLOSION HAZARDS - Decomposition and combustion products may be toxic.

SECTION V - HEALTH EFFECTS DATA

THRESHOLD LIMIT VALUE: This product contains crystalline silica which may cause delayed respiratory disease (silicosis) if inhaled over a prolonged period of time.

OVEREXPOSURE-CHRONIC: Mice receiving skin applications of the Diglycidyl Ether of Bisphenol A or essentially identical resins for two years have yielded very limited evidence of weak carcinogenicity. The published report on this study concludes that the resin product "is not a systemic carcinogen when applied to the skin of CF 1 mice" and the tumor data "was of no biological importance". Based on all available data, IRAC (International Agency For Research On Cancer) has concluded in 1988 that DGEBA is not classified as a carcinogen.

EFFECTS OF OVEREXPOSURE:

EYES - Mild to moderate irritation, possible minor temporary corneal injury.

SKIN - Not likely to be absorbed in toxic amounts.

INHALATION - May cause nasal irritation, central nervous system depression or lung injury.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Allergy, Eczema, Dermatitis

EMERGENCY & FIRST AID PROCEDURES:

EYE CONTACT - Flush with water. Get medical attention if necessary.

SKIN CONTACT - Wash with soap and water. Remove and wash contaminated clothing.

INHALATION - If ill effects occur remove person to fresh air, keep that person warm and quiet and get medical attention promptly.

INGESTION - If conscious, give large quantities of water. Get immediate medical attention.

OTHER - Promptly remove wet contaminated clothing. Wash before reuse.

PRIMARY ROUTE(S) OF EXPOSURE:

ORAL LD50 - (RAT) >5,000 mg/kg

DERMAL LD50 - (RAT) >2100 mg/kg

SKIN IRRITATION - (RABBIT) Mild Irritation

EYE IRRITATION - (RABBIT) None

SENSITIZATION - (GUINEA PIG) Sensitizer

INHALATION LC50 - (RAT) 6.1 mg/L for a 4 hour exposure; toxic by inhalation (minor ingredient)

CARCINOGENICITY: This product does not contain 0.1% or more of any substance which is listed as carcinogen by NTP, IARC or OSHA.

SECTION VI - REACTIVITY DATA

STABILITY - Stable.

HAZARDOUS - Will not occur.

POLYMERIZATION INCOMPATIBILITY - Strong oxidizing agents.

HAZARDOUS DECOMPOSITION

PRODUCTS - Carbon monoxide, carbon dioxide, aldehydes.

CONDITIONS TO AVOID - Elevated temperatures, strong acids & bases in bulk.

(next page)

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Ventilated area. Absorb spill with suitable absorbent material and place into a closed container. For large spills, dike area and pump into closed containers. Prevent this material from entering waterways. Wear protective equipment during cleanup.

WASTE DISPOSAL METHOD: At this time, this material or its containers would not be considered hazardous wastes as defined under the federal RCRA regulations (40 CFR 261) if discarded. Care should be taken to ensure that the material or its containers are disposed of in an approved facility in accordance with current Federal, State, and Local regulations.

COMMUNITY RIGHT TO KNOW: Feldspar is regulated under EPCRA (SARA Title III). Reports should be made as required by this Act. California's Proposition 65 lists crystalline silica as a carcinogen.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION - Use NIOSH approved respirator suitable for organic vapors, if required.

VENTILATION - Local exhaust and general ventilation recommended

PROTECTIVE GLOVES - Rubber or polyethylene.

EYE PROTECTION - Safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT - Protective equipment to avoid personal contact.

SECTION IX - SPECIAL PRECAUTIONS & STORAGE DATA

HMIS CODE - HEALTH: 2 FIRE: 1 REACTIVITY: 0

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: This material may cause sensitization. Do not get in eyes, on skin or clothing. Do not allow contaminated clothing to contact skin. Avoid contact with vapors or fumes. Store in tightly closed containers in cool, dry area. Wash thoroughly after handling.

SECTION X - SUPPLEMENTAL INFORMATION

REGULATORY INFORMATION: None

SARA HAZARD CLASSIFICATION: This material has been categorized as having the following hazard(s) as defined by SARA Title III regulations (40 CFR 370): acute

SARA SECTION 313 LISTED INGREDIENTS: This material does not contain any substance which is subject to the reporting requirements of 40 CFR 372.

DOT PROPER SHIPPING NAME: Not regulated by DOT

UN NUMBER: None

RCRA STATUS: Not a hazardous waste under RCRA (40 CFR 261)

CERCLA STATUS: Not listed

TSCA INVENTORY STATUS: Chemical components listed on TSCA inventory.

(over)

JERSEY RIGHT TO KNOW LABELING INFORMATION - This product contains the following :

<u>I. CHEMICAL NAME</u>	<u>CAS NUMBER</u>
Phenol, 4-4'-(1-Methylethylidene) Bis-, Polymer with (Chloromethyl)Oxirane	25068-38-6
Oxirane, {(Methylphenoxy)Methyl}	26447-14-3

PENNSYLVANIA RIGHT TO KNOW ACT - The following is required composition information:

<u>I. CHEMICAL NAME</u>	<u>CAS NUMBER</u>
Phenol, 4-4'-(1-Methylethylidene) Polymer with (Chloromethyl)oxirane	25068-38-6
<u>COMMON NAME</u>	<u>COMMENTS</u>
Bisphenol A Epoxy Resin	Not on Pennsylvania Hazardous Substance List

<u>II. CHEMICAL NAME</u>	<u>CAS NUMBER</u>
Oxirane, {(Methylphenoxy)Methyl}	26447-14-3
<u>COMMON NAME</u>	<u>COMMENTS</u>
Cresyl Glycidyl Ether	Not on Pennsylvania Hazardous Substance List

HAZARDOUS PRODUCTS INFORMATION ACT - This product contains the following ingredients which are Controlled Products and/or on the Ingredient Disclosure List (Canadian HPA section 13 and 14):

<u>COMPONENTS</u>	<u>CAS NUMBER</u>	<u>AMOUNT % w/w</u>
Reaction product of epichlorohydrin & bisphenol A	25085-99-8	70 - 78%

DISCLAIMER OF LIABILITY

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim liability for any use of this material. Information contained herein is believed to be true and accurate but all statements are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use and the suitability of the material for the user's purpose.

Prepared By: Joe Morales

F#170-21A

HASTINGS PLASTICS COMPANY

1704 Colorado Ave. Santa Monica, CA 90404 310-829-3449 FAX 310-828-6820

PRODUCT DATA
MSDS 1290
*REVISED 4/22/99
REPLACES 3/20/92

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HAPEX 1290

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME	- HASTINGS PLASTICS COMPANY
PRODUCT INFORMATION AND SALES	- (310) 829-3449
EMERGENCY PHONE NUMBER	- (800) 424-9300
PRODUCT NAME	- Hapex 1290
PRODUCT CODE NUMBER	- 1290
CHEMICAL FAMILY	- Epoxy Resin
CHEMICAL NAME	- Modified Bisphenol A Diglycidyl Ether
FORMULA	- Proprietary
D.O.T. CLASSIFICATION	- Not regulated
HMIS Rating:	Health - 2 Fire - 1 Reactivity - 1

SECTION II - HAZARDOUS INGREDIENTS

<u>COMPONENTS</u>	<u>CAS #</u>	<u>%</u>	<u>TLV (units)</u>
BISPHENOL A DIGLYCIDYL ETHER	25085-99-8	100	N/A

SECTION III - PHYSICAL DATA

APPEARANCE AND COLOR	- Straw colored liquid.
ODOR	- Mild aromatic odor.
BOILING POINT	- None.
VAPOR PRESSURE	- N/A.
VAPOR DENSITY	- Nonvolatile
SOLUBILITY IN WATER	- Nil.
PERCENT VOLATILE (By Volume)	- 0
EVAPORATION RATE	- N/A.

SECTION IV - FIRE AND HAZARD EXPLOSION DATA

FLASH POINT °F (Method Used) - >200
FLAMMABLE LIMITS (In Air % LEL) - N/A.
EXTINGUISHING MEDIA - Foam, carbon dioxide, dry chemical or fog.
SPECIAL FIRE FIGHTING PROCEDURES - Firefighters should wear goggles and self-contained breathing apparatus to avoid inhalation of smoke vapors
UNUSUAL FIRE AND EXPLOSION HAZARDS - None.

SECTION V - HEALTH EFFECTS DATA

THRESHOLD LIMIT VALUE - None assigned

(over)

EFFECTS OF OVEREXPOSURE:

EYES - Mild to moderate irritation, possible minor temporary corneal injury.

SKIN - Not likely to be absorbed in toxic amounts.

INHALATION - May cause nasal irritation, central nervous system depression or lung injury.

EMERGENCY & FIRST AID PROCEDURES:

EYE CONTACT - Flush with water. Get medical attention if necessary.

SKIN CONTACT - Wash with soap and water. Remove and wash contaminated clothing.

INHALATION - If ill effects occur remove person to fresh air, keep that person warm and quiet and get medical attention promptly.

INGESTION - Not likely a problem. If large amounts are swallowed, promptly induce vomiting and get medical attention.

PRIMARY ROUTE(S) OF ENTRY: Inhalation, ingestion, skin and eye contact.

CARCINOGENICITY: This product does not contain 0.1% or more of any substance which is listed as carcinogen by NTP, IARC or OSHA.

SECTION VI - REACTIVITY DATA

STABILITY - Stable under normal conditions.

HAZARDOUS POLYMERIZATION - Will not occur.

INCOMPATIBILITY - Strong oxidizers, acids, bases and epoxy hardeners under uncontrolled conditions.

HAZARDOUS DECOMPOSITION PRODUCTS - Carbon monoxide, carbon dioxide, smoke. Other possible products unknown.

CONDITIONS TO AVOID - Heat and warm storage.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Ventilated area. Absorb spill with suitable absorbent material and place into a closed container. For large spills, dike area and pump into closed containers. Prevent this material from entering waterways. Wear protective equipment during cleanup.

WASTE DISPOSAL METHOD: At this time, this material or its containers would not be considered hazardous wastes as defined under the federal RCRA regulations (40 CFR 261) if discarded. Care should be taken to ensure that the material or its containers are disposed of in an approved facility in accordance with current Federal, State, and Local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION - Should be worn to avoid breathing spray mist, heated vapors or if TLV is exceeded.

VENTILATION - Local exhaust and general ventilation recommended

PROTECTIVE GLOVES - Rubber or polyethylene.

EYE PROTECTION - Safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT - As required to prevent wetting skin or clothing.

SECTION IX - SPECIAL PRECAUTIONS & STORAGE DATA

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: This material may cause sensitization.

Do not get in eyes, on skin or clothing. Do not allow contaminated clothing to contact skin. Avoid contact with vapors or fumes.

(next page)

OTHER PRECAUTIONS: Wear protective equipment.

SECTION X - SUPPLEMENTAL INFORMATION

REGULATORY INFORMATION: None

SARA HAZARD CLASSIFICATION: This material has been categorized as having the following hazard(s) as defined by SARA Title III regulations (40 CFR 370): acute

SARA SECTION 313 LISTED INGREDIENTS: This material does not contain any substance which is subject to the reporting requirements of 40 CFR 372.

DOT PROPER SHIPPING NAME: Not regulated by DOT

UN NUMBER: None

DISCLAIMER OF LIABILITY

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