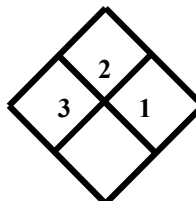


5121 San Fernando Road West
Los Angeles, CA 90039

8am to 5pm Phone: (818) 247-6210
24-Hour Emergency Phone: 1-888-354-3323

Effective Date: 1/21/04**Material Safety Data Sheet**

MSDS No: 61470

1. PRODUCT IDENTIFICATION**Trade Name:** Epocast 1633B**Material Code:** FPC7191**MSDS Category:** Commercial Product**Chemical Family:** filled modified aliphatic amine

NFPA RATING

2. COMPOSITION / INFORMATION ON INGREDIENTS

O S H A	CAS No.	CHEMICAL IDENTITY	EXPOSURE LIMITS				CARCINOGEN STATUS			
			ACGIH		OSHA		MFR.	IARC	NTP	OSHA
			TWA	STEL	PEL	STEL				
*	108-95-2 Common Name: Concentration	Phenol phenol 10.00 - 30.00 % by wt	5 ppm	NE	5 ppm	NE	NE	NR	NR	NR
*	111-40-0 Common Name: Concentration	Bis-(2-aminoethyl)amine Diethylenetriamine 10.00 - 30.00 % by wt	1 ppm	NE	NE	NE	NE	NR	NR	NR
	1185-55-3 Common Name: Concentration	SILANE, TRIMETHOXYMETHYL- trimethoxymethyl silane 0.00 - 10.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	141-43-5 Common Name: Concentration	ETHANOL, 2-AMINO- Ethanolamine 0.00 - 10.00 % by wt	3 ppm	6 ppm	3 ppm	6 ppm	TWA 3 ppm STEL 6 ppm	NR	NR	NR
	25338-55-0 Common Name: Concentration	DIMETHYLAMINOMETHYL PHENOLS DIMETHYLAMINOMETHYL PHENOLS 0.00 - 10.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	Confidential Concentration	silica oxide 10.00 - 30.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	Confidential	siloxanes	NE	NE	NE	NE	NE	NR	NR	NR

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	Concentration	0.00 - 10.00 % by wt								
	Confidential Concentration	siloxanes and silicones 0.00 - 10.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	80-05-7	Phenol, 4,4'-(1-methylethylidene)bis-	NE	NE	NE	NE	TLV 5 mg/m3	NR	NR	NR
	Common Name:	Bisphenol A								
	Concentration	0.00 - 10.00 % by wt								
*	90-72-2	Phenol, 2,4,6-tris[(dimethylamino)methyl]- Tris[(dimethylamino) methyl] phenol	NE	NE	NE	NE	NE	NR	NR	NR
	Common Name:									
	Concentration	0.00 - 10.00 % by wt								
	Confidential Concentration	MODIFIED ALIPHATIC POLYAMINE 10.00 - 30.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
	Confidential Concentration	non-halogenated flame retardant 0.00 - 10.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
	Confidential Concentration	Adduct of ethylamine, substituted amine and bisphenol A 0.00 - 10.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
	Confidential Concentration	nonhalogenated flame-retardant 10.00 - 30.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR

NE = Not Established NR = Not Reviewed * = OSHA Hazardous Ingredient

3. HAZARDS IDENTIFICATION

Emergency Overview: CORROSIVE!! Causes severe eye and skin burns and possible allergic skin reaction. Vapor irritating to eyes, skin and nasal mucous membranes. Harmful if swallowed.

Primary Route(s) of Entry: Dermal, inhalation.

Potential Health Effects: May cause severe eye irritation. Ingestion may cause gastrointestinal irritation or ulceration and burns of mouth and throat. Inhalation may cause irritation to upper respiratory tract. Prolonged or repeated exposure may cause skin irritation.

Chronic: Prolonged or repeated exposure can cause liver and kidney damage, and effect the central nervous system. Substance can cause allergic reaction.

4. FIRST AID MEASURES

Ingestion: If swallowed dilute with water or milk. DO NOT INDUCE VOMITING!! Never give anything by mouth to a person having convulsions or unconscious. Get immediate medical attention.

Skin: For skin contact, wash affected areas with plenty of water, and soap, if available, for several minutes. Remove and clean contaminated clothing and shoes before re-use. Get medical attention if irritation occurs.

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.

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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 symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Get immediate medical attention.

Note to Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed. It may appear after weeks or even months of frequent and prolonged contact.

Medical Conditions Aggravated by Exposure: Eczema, skin, allergy condition or respiratory disease

5. FIRE FIGHTING MEASURES

Flash Point: > 67°C (> 153 °F) (estimated)

Fire Fighting Extinguishing Media: Carbon dioxide, foam, dry chemical, water spray.

Fire Fighting Equipment: Use self-contained breathing apparatus and full protective clothing.

Fire and Explosion Hazards: Keep fire-exposed containers cool with water.

Hazardous Combustion Products: Decomposition and combustion products may be toxic.

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Evacuate spill area. Ventilate area. Avoid breathing vapor. Use protective equipment. Clean-up all traces of spill. Shovel as much of material as possible into dry, clean containers. On hard surfaces, use absorbent material to pickup remainder. On loose surfaces, shovel-up contaminated layer. Keep spills and cleaning run-offs out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE

Precautions: Do not get in eyes, on skin, or on clothing. Keep away from heat, sparks, and flames. Wear splash goggles and impervious gloves when handling. Wash thoroughly after handling. Avoid breathing vapor. Keep containers closed when not in use. Use only with adequate ventilation. Do not take internally.

Other Handling Information: In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid contact with eyes and prolonged or repeated skin contact. Do not inhale mists. Use with adequate ventilation. For industrial use only.

Storage Information: STORAGE TEMPERATURE: 35°C, maximum. Store indoors in a cool, dry area with adequate ventilation away from excessive heat, sources of ignition, and reactive materials. Do NOT store near food or feed. CORROSIVE to copper and brass on long-term storage.

Additional Information: PLEASE READ TECHNICAL DATA SHEET BEFORE HANDLING THE PRODUCT. KEEP OUT OF THE REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protective Equipment: Eye bath and safety shower should be available. Wear protective clothing.

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Exposure Guidelines: Wash thoroughly after handling and before eating, drinking, or using tobacco products.

Skin Protection: Wear impervious gloves.

Respiratory Protection: Wear respirator (MSHA/NIOSH or approved equivalent) suitable for concentrations and type of air contaminants encountered.

Eye Protection: Wear splash-proof chemical goggles.

Engineering Controls: Good general mechanical ventilation and local exhaust.

Emergency Response Protection: Wear breathing apparatus (MSHA/NIOSH-approved, pressure demand, self-contained or equivalent) and full protective gear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color:	honey
Odor:	Amine
Physical State:	semi-paste
Solubility in Water:	Slight
Vapor Pressure:	< 1 at 20°C (68 °F)
Specific Gravity:	0.68 g/cc
Evaporation Rate:	< 1 (Butyl Acetate = 1)
Vapor Density:	> 1 (Air = 1)

10. STABILITY AND REACTIVITY

Conditions to Avoid: Product will react with carbon dioxide in air to form solid carbamates which may be visible as a white, smoke-like fume. Vigorous heating may result in some decomposition. **WARNING:** do not mix this product with nitrites or other nitrosating agents because a nitrosamine may form. Nitrosamines may cause cancer.

Stability: Stable under normal conditions.

Incompatibility: Strong oxidizing agents, acids, and bases

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and oxides of nitrogen.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral Effects (LD50): Not available.

Acute Dermal Toxicity (LD50): Not available.

Inhalation Toxicity (LC50): Not available

Sensitization: Potential sensitizer.

Skin Irritation: Corrosive. Causes burns.

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Eye Irritation: Corrosive. Causes burns.**12. ECOLOGICAL INFORMATION****Biodegradability:** No information available.**Ecotoxicity:** No information available.**13. DISPOSAL CONSIDERATIONS****Waste Disposal Method:** Incinerate in approved equipment. Landfill or incinerate contaminated material in accordance with local, state, and federal regulations.**14. TRANSPORT INFORMATION****DOT: Non-Bulk**

Proper Shipping Name:	Amines, Liquid, Corrosive, n.o.s.
Technical Shipping Name (If n.o.s.):	Diethylene triamine, 2,4,6- Tris(dimethylaminomethyl)phenol
Hazard Class:	8
ID Number:	UN 2735
Packing Group:	PG II
Label:	Corrosive
Hazard Labels:	corrosive

IATA: Non-Bulk

Proper Shipping Name:	Amines, liquid, corrosive, n.o.s.
Technical Shipping Name (If n.o.s.):	Diethylene triamine, 2,4,6- Tris(dimethylaminomethyl)phenol
Hazard Class:	8
ID Number:	UN 2735
Packing Group:	PG II
Label:	Corrosive
Hazard Labels:	corrosive

15. REGULATORY INFORMATION**US Federal Regulations:****Occupational Safety and Health Act (OSHA):** 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.**Resource Conservation and Recovery Act (RCRA):** This product is considered to be a hazardous waste under RCRA (40 CFR 261).
U188**SARA Title III: Section 304 - CERCLA:** This product contains the following chemicals regulated under Section 304 (40 CFR 302) as hazardous substance(s) for emergency release notification ("CERCLA" List):

Effective Date: 1/21/04

Chemical Name: Phenol
CAS Number: 108-95-2
Percent in Composition: 10 - 30 % by wt
Component RQ: 1000

Chemical Name: Phenol, 4,4'-(1-methylethylidene)bis-
Common Name: Bisphenol A
CAS Number: 80-05-7
Percent in Composition: 0 - 10 % by wt

Chemical Name: Benzene, dimethyl-
Common Name: Xylene
CAS Number: 1330-20-7
Percent in Composition: 0.1 - 1 % by wt
Component RQ: 100

Chemical Name: Ethanol
Common Name: Ethyl Alcohol
CAS Number: 64-17-5
Percent in Composition: 0.1 - 1 % by wt
Component RQ: 100

SARA Title III: Section 311/312 - Hazard Communication Standard (HCS): Immediate (acute) health hazard
Delayed (chronic) health hazard

SARA Title III: Section 313 Toxic Chemical List (TCL): This product contains a toxic chemical(s) for routine annual toxic chemical release reporting under section 313 (40 CFR 372). This information must be included in all MSDS's copied or distributed for this material.

Chemical Name: Phenol
Percent in Composition: 10 - 30 % by wt

Chemical Name: Phenol, 4,4'-(1-methylethylidene)bis-
Common Name: Bisphenol A
Percent in Composition: 0 - 10 % by wt
Comment: POLYCYCLIC AROMATIC COMPOUNDS (PACS) (CERTAIN CHEMICALS ONLY)

TSCA Section 8(b) - Inventory Status: Chemical components comply with TSCA regulations.

TSCA Section 12(b) - Export Notification: This product contains the following chemical(s) that are subject to a Section 12(b) export notification:

Chemical Name: 1,2-Ethanediamine, N-(2-aminoethyl)-
Common Name: Diethylenetriamine
CAS Number: 111-40-0

International Regulations:

Australian Inventory Status: This product contains one or more chemicals currently not on the Australian Inventory of Chemical Substances.

Canadian Inventory Status: This product contains one or more chemicals currently not on the Canadian Domestic Substance List.

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European Inventory Status (EINECS): This product contains one or more chemicals currently not on the European Inventory of Existing Commercial Chemical Substances (EINECS) or Pre-market notified.

Japanese Inventory Status: This product contains one or more chemicals currently not on the Japanese Ministry of International Trade and Industry List of Existing and New Chemical Substances.

State Regulations:

California Proposition 65: This product does not contain any chemicals currently on the California list of Known Carcinogens and Reproductive Toxins.

Pennsylvania Right-to-Know: The following is required composition information:

Chemical Name: flame retardant
CAS Number: Confidential
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Phenol
CAS Number: 108-95-2
Comment: Environmental Hazardous Substance

Chemical Name: silica oxide
CAS Number: Confidential
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: MODIFIED ALIPHATIC POLYAMINE
CAS Number: Confidential
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: 1,2-Ethanediamine, N-(2-aminoethyl)-
Common Name: Diethylenetriamine
CAS Number: 111-40-0
Comment: Hazardous Substance

Chemical Name: Phenol, 2,4,6-tris[(dimethylamino)methyl]-
Common Name: Tris[(dimethylamino) methyl] phenol
CAS Number: 90-72-2
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Flame retardant
CAS Number: Confidential
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Phenol, 4,4'-(1-methylethylidene)bis-
Common Name: Bisphenol A
CAS Number: 80-05-7
Comment: Environmental Hazardous Substance

Chemical Name: ETHANOL, 2-AMINO-
Common Name: Ethanolamine
CAS Number: 141-43-5
Comment: Hazardous Substance

Effective Date: 1/21/04

16. OTHER INFORMATION

MSDS No: 61470
Reason Issued: rename from 89683B
Prepared By: Matthew Austin
Approved By: Matthew Austin
Title: EH&S Chemist
Approved Date: 01/12/01
Supersedes Date: 01/12/01

Other Information: L/M Codes: T10021030 (T4) KLC
Material Code:FPC7191

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