

MATERIAL SAFETY DATA SHEET

MSDS Name: ENDCOR EPOXY-ESTER ZINC
MSDS Number: 1870
Version Number
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SECTION 1. PRODUCT AND COMPANY INFORMATION

Product Name: ENDCOR EPOXY-ESTER ZINC
CAS Number: N/A
Hazard Rating: Health: 1 Fire: 2 Reactivity: 1 PPI:

Company Identification: DAMPNEY CO INC.
85 PARIS ST
EVERETT MA 02149-4411

Contact: CONRAD FOO
Telephone/Fax: (617) 389-2805 (617) 389-0484
Emergency Phone (24 Hour): FOR INTERNATIONAL CHEMTREC
001 703 527 3887
Chemtrec (24 Hour): 800-424-9300

Product Class: INDUSTRIAL COATING
Trade Name: ENDCOR EPOXY-ESTER Z
Product Code: 1870
DOT Hazard Class
UN Number: 1263
Shipping Name: PAINT
Technical Name

SECTION 2. INGREDIENT AND HAZARD INFORMATION

Ingredient Name	CAS Number	Percent	TSCA
*ZINC DUST	7440-66-6	71.40	Y
MINERAL SPIRITS	64742-88-7	8.40	Y
(1) AROMATIC HYDROCARBON	64742-95-6	7.26	Y

*** ALL Ingredients in this product are listed in the T.S.C.A. Inventory

** SPECIAL REMARKS ON ABOVE LISTED INGREDIENTS **

(1) TLV not established for this material. This item contains

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approximately 3% xylene (CAS 1330-20-7) which has a PEL and TLV 100 ppm and an STEL of 150 ppm; approximately 1.5% cumene (CAS 98-82-8), which has a PEL and TLV of 50 ppm skin; approximately 32% trimethylbenzene (CAS 25551-13-7), which has a PEL and TLV of 25 ppm. (TRIMETHYLBEN-zene may contain 50% pseudocumene 1,2,4- or 1,2,5-trimethylbenzene (CAS 95-63-6 and 22.5% mesitylene 1,3,5-trimethylbenzene (CAS 108-67-8). The PEL listed for this item is for coal tar naphtha, based on the ACGIH documentation for coal tar naphtha (since deleted). Xylene, cumene and 1,2,4-trimethylbenzene are subject to the reporting requirements of Section 313 of Sara Title III.

SPECIAL REMARKS SPECIFIC TO THIS RAW MATERIAL

*REPORTABLE QUANTITY SARA III

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SECTION 3. PHYSICAL DATA

pH Value: Not Applicable
Boiling Range: 300.°F - 1662.8°F
Melting Point: Not Applicable
Evaporation Rate: 0.025 times Slower than n-Butyl Acetate

Vapor Density: Heavier than air

Partition Coefficient Not Available
% Volatile Weight 15.8%
% Volatile 52.1%
Specific Gravity: 2.714
Weight/Gallon: 22.60 lbs
VOC 3.67 LBS/GAL
Heavy Elements (ppm) 0.

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SECTION 4. FIRE AND EXPLOSION HAZARD DATA

Flammability Class 2
Flash Range: 105.°F
Explosive Range: 0.5%
7.%

EXTINGUISHING MEDIA:

Foam, alcohol foam, CO2, dry chemical, and water fog may be

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ineffective but should be used to cool fire-exposed containers to prevent pressure build up and possible auto-ignition or explosion when exposed to extreme heat.

SPECIAL FIREFIGHTING PROCEDURES:

Use full protection equipment including self contained breathing apparatus for respiratory protection in fighting fires in enclosed or confined spaces, or as otherwise needed. Minimize breathing gases, vapors fumes or decomposition products. After the organic material has burned, zinc particles suspended in the air may form an explosive mixture; avoid any disturbance which could cause a dust cloud, such as gas propelled fire extinguishers, in the burning material. Direct the CLASS B extinguishing agent, such as dry chemicals, above the fire to rain down on the burning material. Care should be taken when applying a CLASS B extinguishing agent because some agents can accelerate a fire when most of the organics have been consumed. The metal will glow bright if burning, if this happens isolate the fire with dry inert granular material or CLASS D extinguishing agent then leave it alone. Allow material to become cool before disposal.

UNUSUAL FIRE & EXPLOSION HAZARDS:

During emergency conditions, over-exposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SECTION 5. HEALTH HAZARD DATA

Route	Species	Exposure and Dose
*ZINC DUST		
Inhalation	Unknown	LD50 124. PPM
MINERAL SPIRITS		
Inhalation	Rat	LC50 4 HOURS 5500. PPM
Oral	Rat	LD50 5000. mg/kg
Skin	Rabbit	LD50 3000. mg/kg
(1) AROMATIC HYDROCARBON		
Inhalation	Unknown	LC50 99. PPM
Oral	Unknown	LD50 5. PPM
Skin	Unknown	LD50 3.16 PPM

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PERMISSIBLE EXPOSURE LEVEL:

SEE SECTION VIII

EFFECTS OF OVEREXPOSURE:

High vapor concentrations (> approx. 1000 ppm) are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anesthetic, and have other central nervous system effects.

PRIMARY ROUTE(S) OF ENTRY:

(X) Dermal (X) Inhalation () Ingestion

EMERGENCY AND FIRST AID PROCEDURES:

Eyes - flush thoroughly with running water for 15 minutes, including under eyelids. Get medical attention.

Skin - promptly remove contaminated clothing and wash affected areas thoroughly with soap and water. If irritation occurs get medical attention. Wash contaminated clothing thoroughly before re-use.

Inhalation - if overcome by vapor, remove to an area free from risk of further exposure and call a physician immediately. Administer oxygen or artificial respiration as needed.

Ingestion - do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention immediately.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product.

SECTION 6. STABILITY AND REACTIVITY MEASURES

Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur

INCOMPATIBILITY:

Avoid contact with strong oxidizing agents, such as liquid chlorine, concentrated oxygen, or sodium hypochlorite.

CONDITIONS TO AVOID:

Avoid heat, open flames.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide and unidentified organics may be formed.

SECTION 7. SPILL OR LEAK PROCEDURES

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

Before attempting cleanup, refer to hazard caution information in other sections of this sheet.

LARGE SPILLS - notify safety personnel. Eliminate potential sources of ignition. Wear appropriate respirator and protective clothing. Soak up with absorbent such as sand, clay, or other suitable material. Place in non-leaking containers and seal tightly for proper disposal. Ventilate confined spaces. Minimize breathing vapors. Open all windows and doors. Minimize skin contact. Keep product out of sewers and water courses by diking and impounding. Observe precautions for volatile, combustible vapors from absorbed material.

SMALL SPILLS - take up with absorbent material and place in non-leaking containers for proper disposal.

WASTE DISPOSAL METHOD:

Assure conformity with applicable federal, state and local regulations.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
*ZINC DUST	10.00 mg/M3	N/est	N/est	N/est	10.00 mg/M3
MINERAL SPIRITS	100.00 PPM	N/est	N/est	N/est	100.00 PPM
(1) AROMATIC HYDROCARBON	100.00 PPM	N/est	N/est	N/est	100.00 PPM

RESPIRATORY PROTECTION:

Use NIOSH approved respirator as required to prevent over-exposure.

UNCONFINED SPACES - use a vapor/particulate respirator such as NIOSH approved No. TC-23C.

CONFINED SPACES - use a constant flow air-line respirator such as NIOSH approved No. TC-19C.

VENTILATION:

Provide sufficient ventilation to keep air contaminant

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concentration below current applicable OSHA Permissible Exposure Limit or ACGIH's TLV Limit. No smoking or open lights.

PROTECTIVE GLOVES:

Use chemical-resistant gloves to prevent skin contact.

EYE PROTECTION:

Use splash goggles or face shield to prevent eye contact.

Contact lenses pose a special hazard; soft lenses may absorb and all lenses concentrate irritants.

OTHER PROTECTIVE EQUIPMENT:

Use chemical-resistant or other protective outerwear to protect against clothing contamination and skin contact.

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SECTION 9. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING, TRANSPORTATION, AND STORING:

CAUTION! COMBUSTIBLE. Handling and storage conditions must be suitable for OSHA CLASS II combustible liquid. Store in cool, well-ventilated, fire resistant storage area. Protect containers against physical damage. Keep away from heat, flame, and strong oxidizing agents. Do not store above 100 degrees F. Use only with adequate ventilation. Keep containers closed when not in use. Do not breathe vapor or mist. Avoid contact with eyes, skin, and clothing. Do not take internally. Bond and ground containers of this material when pouring to avoid static sparks which create a fire hazard.

OTHER PRECAUTIONS:

Contact lenses pose a special hazard; soft lenses may absorb and all lenses concentrate irritants.

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SECTION 10. REGULATORY INFORMATION

SARA TITLE III SECTION 313:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

Ingredient Name	CAS Number	Percent
*ZINC DUST	7440-66-6	71.40

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The information and recommendations contained herein are based on data believed to be correct. However, Dampney makes no warranty expressed or implied regarding the accuracy of these data or results to be obtained from the use thereof. Dampney assumes no responsibility for personal injury or property damage caused by the use of the material described herein. It is the responsibility of the purchaser or user to ensure that this material is properly and safely used.