

MATERIAL SAFETY DATA SHEET

MSDS Name: ENDCOR EPOXY WHITE
MSDS Number: 700C-A
Version Number
MSDS Date: MAR-24-2009
Page Number: 1

SECTION 1. PRODUCT AND COMPANY INFORMATION

Product Name: ENDCOR EPOXY WHITE
CAS Number: N/A
Hazard Rating: Health: 2 Fire: 3 Reactivity: 0 PPI:

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

Contact: CONRAD FOO
Telephone/Fax: (617) 389-2805 (617) 389-0484
Chemtrec (24 Hour): (800) 424-9300

Product Class: PART A OF A TWO PART SYSTEM
Trade Name: ENDCOR EPOXY WHITE
Product Code: 700C-A
DOT Hazard Class
UN Number: 1263
Shipping Name: PAINT
Technical Name

SECTION 2. INGREDIENT AND HAZARD INFORMATION

Ingredient Name	CAS Number	Percent	TSCA
BISPHENOL-A EPOXY	25068-38-6	20.87	Y
TERT BUTYL ACETATE	540-88-5	12.11	Y
P-CHLOROBENZOTRIFLUORIDE	98-56-6	5.26	Y
METHYL n-AMYL KETONE	110-43-0	3.51	Y
XYLENE (HAPS)	1330-20-7	1.05	Y
ETHYL BENZENE (HAPS)	100-41-4	0.27	Y

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

MATERIAL SAFETY DATA SHEET

MSDS Name: ENDCOR EPOXY WHITE
MSDS Number: 700C-A
Version Number
MSDS Date: MAR-24-2009
Page Number: 2

** SPECIAL REMARKS ON ABOVE LISTED INGREDIENTS **

Technical grade xylene contains 18-20% ethyl benzene CAS # is 100-41-4 and is subject to reporting requirements of SECTION 313 of SARA TITLE III.
CEL 25 ppm 8 HR TWA
ACGIH TLV not established
OSHA PEL not established
VM&P (typical benzene content, estimated): <0.1% by weight.
VM&P also contains 4% toluene, 8% xylene, 3% ethyl benzene.

=====

SECTION 3. PHYSICAL DATA

Form: LIQUID
Appearance/Color: WHITE
Odor: SOLVENTS
pH Value: Not Applicable
Boiling Range: Not Available
Melting Point: Not Applicable
Evaporation Rate: 0.316 times Faster than n-Butyl Acetate

Vapor Density: Heavier than air

Partition Coefficient Not Available
% Volatile Weight 5.56%
% Volatile 41.58%
Specific Gravity: 1.69618
Weight/Gallon: 14.1LBS/GA
VOC 1.13 LBS/GAL
Heavy Elements (ppm) 0.

=====

SECTION 4. FIRE AND EXPLOSION HAZARD DATA

Flammability Class 1B
Flash Range: 39.92°F - 490.°F
Explosive Range: 0.9%
10.5%

EXTINGUISHING MEDIA:

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

MATERIAL SAFETY DATA SHEET

MSDS Name: ENDCOR EPOXY WHITE
MSDS Number: 700C-A
Version Number
MSDS Date: MAR-24-2009
Page Number: 3

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 (NIOSH approved) for respiratory protection in fighting fires in enclosed or confined spaces, or as otherwise needed. Minimize breathing gases, vapors, fumes or decomposition products.

UNUSUAL FIRE & EXPLOSION HAZARDS:

During emergency conditions, overexposure 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
BISPHENOL-A EPOXY		
Oral	Rat	LD50 5000. mg/kg
Skin	Rabbit	LD50 6000. mg/kg
TERT BUTYL ACETATE		
Inhalation	Rat	LC50 4000. PPM
Oral	Rat	LD50 4500. mg/kg
Skin	Rabbit	LD50 2000. mg/kg
P-CHLOROBENZOTRIFLUORIDE		
Inhalation	Rat	LC50 4479. PPM
Oral	Rat	LD50 6800. mg/kg
Skin	Rabbit	LD50 2700. mg/kg
METHYL n-AMYL KETONE		
Inhalation	Rat	LC50 4000. PPM
Oral	Rat	LD50 1600. mg/kg
Skin	Rabbit	LD50 10206. mg/kg
XYLENE (HAPS)		
Inhalation	Unknown	LC50 26800. PPM
Oral	Unknown	LD50 4300. mg/kg
Skin	Unknown	LD50 2000. mg/kg

PERMISSIBLE EXPOSURE LEVEL:

MATERIAL SAFETY DATA SHEET

MSDS Name: ENDCOR EPOXY WHITE
MSDS Number: 700C-A
Version Number
MSDS Date: MAR-24-2009
Page Number: 4

SEE SECTION VIII

EFFECTS OF OVEREXPOSURE:

Primary route(s) of entry:

(X) Dermal (X) Inhalation () Ingestion

Acute (short term) exposure:

Inhalation - excessive inhalation of vapors can cause nasal and respiratory irritation, cns effects including dizziness, weakness, nausea, headache, possible unconsciousness, and even death.

Skin contact - prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.

Eye contact - can cause severe irritation, redness, tearing, and blurred vision.

Ingestion - can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

Chronic effects of VM&P:

VM&P contains n-hexane. Overexposure to n-hexane may cause progressive and potentially irreversible damage to the peripheral nervous system, particularly in the arms and legs. Simultaneous exposure to the vapors of n-hexane and methyl ethyl ketone or methyl isobutyl ketone above the recommended workplace limits increases the risk of adverse effects from n-hexane.

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. If breathing is difficult, administer oxygen, or artificial respiration if breathing has stopped. Keep person warm and quiet and get medical attention.

Ingestion - if swallowed, call a physician immediately. Only induce vomiting at the instructions of a physician. Never give anything by mouth to an unconscious person. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

Pre-existing eye, skin, liver and/or kidney disorders may be

MATERIAL SAFETY DATA SHEET

MSDS Name: ENDCOR EPOXY WHITE
MSDS Number: 700C-A
Version Number
MSDS Date: MAR-24-2009
Page Number: 5

aggravated by exposure to this product.
Chronic (long term) exposure:
In laboratory animals - overexposure to this material (or its components) has been found to cause the following effects; anemia, liver abnormalities, kidney, lung and spleen damage.
In humans - liver and cardiac abnormalities.
Chronic overexposure to xylene has been suggested to cause cardiac abnormality in humans.

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, acids or bases.

CONDITIONS TO AVOID:

Avoid heat, open flames.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide and unidentified organics may be formed.

SECTION 7. SPILL OR LEAK PROCEDURES

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. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Large spills - notify safety personnel. Eliminate potential sources of ignition. Wear appropriate respirator and protective clothing. Soak up with an absorbent, I.E. 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.

MATERIAL SAFETY DATA SHEET

MSDS Name: ENDCOR EPOXY WHITE
MSDS Number: 700C-A
Version Number
MSDS Date: MAR-24-2009
Page Number: 6

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
BISPHENOL-A EPOXY	N/est	N/est	N/est	N/est	N/est
TERT BUTYL ACETATE	N/est	N/est	N/est	N/est	N/est
P-CHLOROBENZOTRIFLUORIDE	N/est	N/est	N/est	N/est	N/est
METHYL n-AMYL KETONE	50.00 PPM	N/est	N/est	N/est	100.00 PPM
XYLENE (HAPS)	100.00 PPM	N/est	150.00 PPM	150.00 PPM	100.00 PPM
ETHYL BENZENE (HAPS)	100.00 PPM	N/est	125.00 PPM	125.00 PPM	100.00 PPM

RESPIRATORY PROTECTION:

Use NIOSH approved respirator as required to prevent overexposure.
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 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:

MATERIAL SAFETY DATA SHEET

MSDS Name: ENDCOR EPOXY WHITE
MSDS Number: 700C-A
Version Number
MSDS Date: MAR-24-2009
Page Number: 7

Use chemical splash goggles or face shield to prevent eye contact.

OTHER PROTECTIVE EQUIPMENT:

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

SECTION 9. SPECIAL PRECAUTIONS

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

CAUTION! FLAMMABLE! Handling and storage conditions must be suitable for OSHA CLASS I flammable 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.

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
XYLENE (HAPS)	1330-20-7	1.05

-PROP 65 (CARCINOGEN)

WARNING: this product contains a chemical known to the state of California to cause cancer.

Ingredient Name	CAS Number	Percent
ETHYL BENZENE (HAPS)	100-41-4	0.27

MATERIAL SAFETY DATA SHEET

MSDS Name: ENDCOR EPOXY WHITE
MSDS Number: 700C-A
Version Number
MSDS Date: MAR-24-2009
Page Number: 8

VM&P 64742-89-8 0.24

*FORMALDEHYDE 50-00-0 0.01

-PROP 65 (BOTH CARCINOGEN AND TERATOGEN)
WARNING: This product may contain a chemical known to the state of California to cause cancer and birth defects, or other reproductive harm.

Ingredient Name	CAS Number	Percent
TOLUENE (HAPS)	108-88-3	0.01

The information and recommendations contained herein are based on data believed to be correct. However, Dampney makes no warranty express 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 damaged caused by 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.

MATERIAL SAFETY DATA SHEET

MSDS Name: ENDCOR EPOXY ACTIVATOR
MSDS Number: 700C-B
Version Number
MSDS Date: MAR-24-2009
Page Number: 1

SECTION 1. PRODUCT AND COMPANY INFORMATION

Product Name: ENDCOR EPOXY ACTIVATOR
CAS Number: N/A
Hazard Rating: Health: 2 Fire: 3 Reactivity: 0 PPI:

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

Contact: CONRAD FOO
Telephone/Fax: (617) 389-2805 (617) 389-0484
Chemtrec (24 Hour): (800) 424-9300

Product Class: PART B OF A TWO PART SYSTEM
Trade Name: ENDCOR EPOXY ACTIVAT
Product Code: 700C-B
DOT Hazard Class
UN Number: 1263
Shipping Name: PAINT
Technical Name

SECTION 2. INGREDIENT AND HAZARD INFORMATION

Ingredient Name	CAS Number	Percent	TSCA
POLYMERIC AMIDE		100.00	Y

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

** SPECIAL REMARKS ON ABOVE LISTED INGREDIENTS **
TLV not established.

SECTION 3. PHYSICAL DATA

Form: LIQUID
Appearance/Color: BROWN

MATERIAL SAFETY DATA SHEET

MSDS Name: ENDCOR EPOXY ACTIVATOR
MSDS Number: 700C-B
Version Number
MSDS Date: MAR-24-2009
Page Number: 2

Odor: AMINE
pH Value: Not Applicable
Boiling Range: Not Available
Melting Point: Not Applicable
Evaporation Rate: Non Volatile

Vapor Density: Non Volatile

Partition Coefficient: Not Available
% Volatile Weight: 0.%
% Volatile: 0.%
Specific Gravity: 1.001
Weight/Gallon: 8.34 lbs
VOC: NONE
Heavy Elements (ppm): 0.

SECTION 4. FIRE AND EXPLOSION HAZARD DATA

Flammability Class: 3
Flash Range: Not Available
Explosive Range: Not Available

EXTINGUISHING MEDIA:

Foam, alcohol foam, CO₂, dry chemical. Water fog may be 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 (NIOSH/MSHA approved) for respiratory protection in fighting fires in enclosed or confined spaces, or as otherwise needed. Minimize breathing gases, vapors, fumes or decomposition products.

UNUSUAL FIRE & EXPLOSION HAZARDS:

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

SECTION 5. HEALTH HAZARD DATA

MATERIAL SAFETY DATA SHEET

MSDS Name: ENDCOR EPOXY ACTIVATOR

MSDS Number: 700C-B

Version Number

MSDS Date: MAR-24-2009

Page Number: 3

Route	Species	Exposure and Dose
-------	---------	-------------------

PERMISSIBLE EXPOSURE LEVEL:

See section II

EFFECTS OF OVEREXPOSURE:

Primary route(s) of entry:

(X) Dermal () Inhalation () Ingestion

Acute (short term) exposure:

Inhalation: Excessive inhalation of vapors can cause nasal and respiratory irritation, CNS effects including dizziness, weakness, nausea, and headaches.

Skin contact: Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis or allergic skin reaction.

Eye contact: Can cause severe irritation, redness, tearing, and blurred vision.

Ingestion: Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

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. If breathing is difficult, administer oxygen, or artificial respiration if breathing has stopped. Keep person warm and quiet and get medical attention.

Ingestion: If swallowed, call a physician immediately. Only induce vomiting at the instructions of a physician. Never give anything by mouth to an unconscious person.

Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

May cause dermatitis, eye irritation, moderate to severe potential sensitizer. Prolonged skin contact may cause dermatitis or allergic skin reactions.

Pre-existing eye, skin, liver and/or kidney disorders may be aggravated by exposure to this product.

MATERIAL SAFETY DATA SHEET

MSDS Name: ENDCOR EPOXY ACTIVATOR
MSDS Number: 700C-B
Version Number
MSDS Date: MAR-24-2009
Page Number: 4

Effects of chronic (long term) overexposure:
Unknown

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, acids or bases.

CONDITIONS TO AVOID:

Avoid heat, open flames.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, carbon dioxide, aldehydes, nitrogen oxide and compounds.

SECTION 7. SPILL OR LEAK PROCEDURES

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.

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Large spills: Notify safety personnel. Eliminate potential sources of ignition. Wear appropriate respirator and protective clothing. Soak up with an absorbent, i.e. 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

MATERIAL SAFETY DATA SHEET

MSDS Name: ENDCOR EPOXY ACTIVATOR
MSDS Number: 700C-B
Version Number
MSDS Date: MAR-24-2009
Page Number: 5

regulations.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
POLYMERIC AMIDE	N/est	N/est	N/est	N/est	N/est

RESPIRATORY PROTECTION:

Use NIOSH approved respirator as required to prevent overexposure. Unconfined spaces--use a vapor/particulate respirator such as NIOSH/MSHA approved no. TC-23C. Confined spaces--use a constant flow air-line respirator such as NIOSH/MSHA approved no. TC-19C.

VENTILATION:

Provide sufficient ventilation to keep air contaminant 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 chemical splash goggles or face shield to prevent eye contact.

OTHER PROTECTIVE EQUIPMENT:

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

SECTION 9. SPECIAL PRECAUTIONS

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

Caution! Flammable. Handling and storage conditions must be suitable for OSHA Class I flammable 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 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

MATERIAL SAFETY DATA SHEET

MSDS Name: ENDCOR EPOXY ACTIVATOR

MSDS Number: 700C-B

Version Number

MSDS Date: MAR-24-2009

Page Number: 6

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.

=====
SECTION 10. REGULATORY INFORMATION

=====
The information and recommendations contained herein are based on data believed to be correct. However, Dampney makes no warranty express 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 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.