

MATERIAL SAFETY DATA SHEET

MSDS Name: THURMALOX 245 ZINC PRIMER
MSDS Number: 245A
Version Number
MSDS Date: FEB-04-2005
Page Number: 1

SECTION 1. PRODUCT AND COMPANY INFORMATION

Product Name: THURMALOX 245 ZINC PRIMER
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: PETER BARRETT
Telephone/Fax: (617) 389-2805 (617) 389-0484
Emergency Phone (24 Hour): EVENING ADMINISTRATOR
(800) 424-9300
Chemtrec (24 Hour): (800) 424-9300

Product Class: PART A OF A TWO PART SYSTEM
Trade Name: THURMALOX 245 ZINC P
Product Code: 245A

SECTION 2. INGREDIENT AND HAZARD INFORMATION

Ingredient Name	CAS Number	Percent	TSCA
XYLENE (HAPS)	1330-20-7	35.63	Y
ZINC COMPOUND	1314-13-2	16.44	Y
(1) HI FLASH NAPHTHAS	64742-95-6	9.00	Y
ETHYL BENZENE (HAPS)	100-41-4	1.70	Y
TOLUENE (HAPS)	108-88-3	1.70	Y

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

** 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.

Continued

MATERIAL SAFETY DATA SHEET

MSDS Name: THURMALOX 245 ZINC PRIMER
MSDS Number: 245A
Version Number
MSDS Date: FEB-04-2005
Page Number: 2

SECTION 2. INGREDIENT AND HAZARD INFORMATION Continued

(1) TLV not established for this material. This item contains approximately 7% xylene (CAS 1330-20-7) which has a PEL and TLV 100 ppm and an STEL of 150 ppm; approximately 3% cumene (CAS 98-82-8), which has a PEL and TLV of 50 ppm skin; approximately 40% 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. ACGIH recommends a TWA of 50 ppm for toluene (skin).

SECTION 3. PHYSICAL DATA

Form: DARK GRAY LIQUID
Odor: AROMATIC
pH Value: Not Applicable
Boiling Range: 230.(F - 338.(F
Melting Point: Not Applicable
Evaporation Rate: 0.286 times Slower than n-Butyl Acetate

Vapor Density: Heavier than air

Partition Coefficient Not Available
% Volatile Weight 48.2%
% Volatile 65.%
Specific Gravity: 1.17047
Weight/Gallon: 9.32 lbs
VOC 4.9 LBS/GAL
Heavy Elements (ppm) 0.

SECTION 4. FIRE AND EXPLOSION HAZARD DATA

Flammability Class 1B

Flash Range: 45.(F - 108.(F
Explosive Range: 1.%
7.%

Continued

MATERIAL SAFETY DATA SHEET

MSDS Name: THURMALOX 245 ZINC PRIMER
MSDS Number: 245A
Version Number
MSDS Date: FEB-04-2005
Page Number: 3

SECTION 4. FIRE AND EXPLOSION HAZARD DATA

Continued

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 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
(1) HI FLASH NAPHTHAS		
Inhalation	Unknown	LC50 99. PPM
Oral	Unknown	LD50 5. PPM
Skin	Unknown	LD50 3.16 PPM
TOLUENE (HAPS)		
Inhalation	Unknown	LD50 8000. PPM
Oral	Unknown	LD50 5. PPM
Skin	Unknown	LD50 14. PPM

PERMISSIBLE EXPOSURE LEVEL:

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.

Continued

MATERIAL SAFETY DATA SHEET

MSDS Name: THURMALOX 245 ZINC PRIMER

MSDS Number: 245A

Version Number

MSDS Date: FEB-04-2005

Page Number: 4

SECTION 5. HEALTH HAZARD DATA

Continued

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:

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

Toluene may be harmful to the fetus based on laboratory animal studies. Repeated exposure to toluene has been associated with high frequency hearing loss based on evidence in laboratory animals. The human health consequences of this finding is uncertain.

Chronic overexposure to xylene has been suggested to cause cardiac abnormality in humans.

MATERIAL SAFETY DATA SHEET

MSDS Name: THURMALOX 245 ZINC PRIMER
MSDS Number: 245A
Version Number
MSDS Date: FEB-04-2005
Page Number: 4

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.
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
XYLENE (HAPS)	100.00 PPM	N/est	150.00 PPM	150.00 PPM	100.00 PPM
ZINC COMPOUND	10.00 mg/M3	5.00 mg/M3	N/est	N/est	N/est

Continued

MATERIAL SAFETY DATA SHEET

MSDS Name: THURMALOX 245 ZINC PRIMER

MSDS Number: 245A

Version Number

MSDS Date: FEB-04-2005

Page Number: 6

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Continued

(1) HI FLASH NAPHTHAS	100.00 PPM	N/est	N/est	N/est	100.00 PPM
ETHYL BENZENE (HAPS)	100.00 PPM	N/est	125.00 PPM	125.00 PPM	100.00 PPM
TOLUENE (HAPS)	50.00 PPM	N/est	100.00 PPM	100.00 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:

Traces of Benzene and Formaldehyde may form when this product is heated above 300 degrees F. Evolution rate is highest during the first few hours, then subsequently approaches zero. Personnel should wear organic vapor respirators until workplace exposure levels have been determined. Review the OSHA Benzene regulations for detailed information on safe handling requirements.

OSHA PEL for Formaldehyde is 0.75 ppm.

OSHA PEL for Benzene is 10 ppm.

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.

MATERIAL SAFETY DATA SHEET

MSDS Name: THURMALOX 245 ZINC PRIMER
MSDS Number: 245A
Version Number
MSDS Date: FEB-04-2005
Page Number: 7

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	35.63
ZINC COMPOUND	1314-13-2	16.44
(1) HI FLASH NAPHTHAS	64742-95-6	9.00
ETHYL BENZENE (HAPS)	100-41-4	1.70
TOLUENE (HAPS)	108-88-3	1.70

-PROP 65 (CARCINOGEN)

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

Ingredient Name	CAS Number	Percent
XYLENE (HAPS)	1330-20-7	35.63
(1) HI FLASH NAPHTHAS	64742-95-6	9.00

Continued

MATERIAL SAFETY DATA SHEET

MSDS Name: THURMALOX 245 ZINC PRIMER

MSDS Number: 245A

Version Number

MSDS Date: FEB-04-2005

Page Number: 8

SECTION 10. REGULATORY INFORMATION

Continued

ETHYL BENZENE (HAPS)	100-41-4	1.70
TOLUENE (HAPS)	108-88-3	1.70
BENZENE	71-43-2	0.05

The information and recommendation 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 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: ZINC DUST COMPONENT
MSDS Number: 2452
Version Number
MSDS Date: FEB-10-2004
Page Number: 1

SECTION 1. PRODUCT AND COMPANY INFORMATION

Product Name: ZINC DUST COMPONENT
CAS Number: N/A
Hazard Rating: Health: 0 Fire: 1 Reactivity: 1 PPI:

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

Contact: PETER BARRETT
Telephone/Fax: (617) 389-2805 (617) 389-0484
Emergency Phone (24 Hour): EVENING ADMINISTRATOR
(800) 424-9300
Chemtrec (24 Hour): (800) 424-9300

Product Class: ZINC DUST FOR 210 & 245 PRIMER
Trade Name: ZINC DUST COMPONENT
Product Code: 2452

SECTION 2. INGREDIENT AND HAZARD INFORMATION

Ingredient Name	CAS Number	Percent	TSCA
*ZINC DUST	7440-66-6	100.00	Y

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

SECTION 3. PHYSICAL DATA

Form: GRAY POWDER
Odor: NONE
pH Value: Not Applicable
Boiling Range: N/A 0.øF
Melting Point: Not Applicable
Evaporation Rate: Non Volatile
Vapor Density: Heavier than air
Partition Coefficient: Not Available
% Volatile Weight: 0.%
% Volatile: NONE 0.%
Specific Gravity: 7.101
Weight/Gallon: 59.13 lbs
VOC: NONE
Heavy Elements (ppm): 0.

MATERIAL SAFETY DATA SHEET

MSDS Name: ZINC DUST COMPONENT
MSDS Number: 2452
Version Number
MSDS Date: FEB-10-2004
Page Number: 2

SECTION 4. FIRE AND EXPLOSION HAZARD DATA

Flammability Class
Flash Range: NONE
Explosive Range: 0.5 oz/ft³ 0. %
0. %

EXTINGUISHING MEDIA:

CLASS D Extinguisher. Dry powder type. Avoid water.
AVOID WATER

SPECIAL FIREFIGHTING PROCEDURES:

Dry zinc dust will not ignite spontaneously; but once ignited may burn readily in air. Do not spread material. Smother and allow fire to go out. Wear self-contained breathing apparatus.

UNUSUAL FIRE & EXPLOSION HAZARDS:

Bulk dust in contact with water or damp air evolves hydrogen. The heat produced during this reaction could ignite the hydrogen. An explosive condition may exist if this happens in a confined space. Dry dust forms explosive mixtures with air.

SECTION 5. HEALTH HAZARD DATA

Route	Species	Exposure and Dose
*ZINC DUST Inhalation	Unknown	LD50 124. PPM

PERMISSIBLE EXPOSURE LEVEL:
15 mg/m³

EFFECTS OF OVEREXPOSURE:

None. However zinc oxide fume may result from combustion of zinc dust. Excessive inhalation of this fume may produce symptoms known as fume fever or "zinc shakes".

EMERGENCY AND FIRST AID PROCEDURES:

Symptoms usually disappear within 24 hours. Symptomatic treatment such as bed rest, possibly aspirin, to afford relief from fever and chills. Obtain medical attention.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

None known.

MATERIAL SAFETY DATA SHEET

MSDS Name: ZINC DUST COMPONENT
MSDS Number: 2452
Version Number
MSDS Date: FEB-10-2004
Page Number: 3

SECTION 6. STABILITY AND REACTIVITY MEASURES

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

INCOMPATIBILITY:

Avoid contact with water, acids, and alkalis.

CONDITIONS TO AVOID:

Moisture, heat, flame, other sources of ignition.

HAZARDOUS DECOMPOSITION PRODUCTS:

Hydrogen gas when in contact with water.

SECTION 7. SPILL OR LEAK PROCEDURES

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

Prohibit smoking, avoid all ignition sources, and avoid dusting.

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
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*ZINC DUST

10.00 mg/M3	N/est	N/est	N/est	10.00 mg/M3
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RESPIRATORY PROTECTION:

Use NIOSH approved respirator as required to prevent overexposure.

VENTILATION:

Provide sufficient ventilation to keep air contaminant concentration below current applicable OSHA permissible exposure limit or ACGIS's TLV limit.

PROTECTIVE GLOVES:

Recommended.

EYE PROTECTION:

Use splash goggles or face shield to prevent eye contact.

OTHER PROTECTIVE EQUIPMENT:

Fire resistant coveralls are recommended.

MATERIAL SAFETY DATA SHEET

MSDS Name: ZINC DUST COMPONENT
MSDS Number: 2452
Version Number
MSDS Date: FEB-10-2004
Page Number: 4

SECTION 9. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING, TRANSPORTATION, AND STORING:
Protect against physical damage. Store in cool, dry, ventilated space, separate from acids and alkalis.

OTHER PRECAUTIONS:
Keep areas where zinc dust is stored and/or used free from all ignition sources.

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	100.00

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