

MATERIAL SAFETY DATA SHEET

MSDS Name: THURMALOX GRAY
 MSDS Number: 261-08
 Version Number
 MSDS Date: NOV-20-2012
 Page Number: 1 of 7

SECTION 1. PRODUCT AND COMPANY INFORMATION

Product Name: THURMALOX GRAY
 CAS Number: N/A
 Hazard Rating: Health: 2 Fire: 2 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
 Emergency Phone (24 Hour): FOR INTERNATIONAL CHEMTREC
 001 703 527 3887
 Chemtrec (24 Hour): 800-424-9300 CCN6206

Product Class: INDUSTRIAL COATING
 Trade Name: THURMALOX GREY
 Product Code: 261-08
 UN Number: 1263
 Shipping Name: PAINT

SECTION 2. INGREDIENT AND HAZARD INFORMATION

Ingredient Name	CAS Number	Percent	TSCA
METHYL n-AMYL KETONE	110-43-0	24.55	Y
BARIUM COMPOUND	13701-59-2	13.39	Y
C.I. PIGMENT BLACK 28	68186-91-4	1.03	Y
CRYSTALLINE SILICA	14808-60-7	0.14	Y

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

SPECIAL REMARKS SPECIFIC TO THIS RAW MATERIAL

NTP and IARC concludes that crystalline silica, (respirable) may

MATERIAL SAFETY DATA SHEET

MSDS Name: THURMALOX GRAY
MSDS Number: 261-08
Version Number
MSDS Date: NOV-20-2012
Page Number: 2 of 7

reasonably be anticipated to be a carcinogen. National Institute for Occupational Safety and Health (NIOSH) recommends maximum permissible concentration 0.025 mg/m3 as determined by a full shift sample up to 10 hour working day, 40 hour work week. NTP concludes that silica, crystalline (respirable) may be anticipated to be a carcinogen, IARC CLASS 2A.

SECTION 3. PHYSICAL DATA

Form: LIQUID
Appearance/Color: GRAY
pH Value: Not Applicable
Boiling Range: 305.6°F
Melting Point: Not Applicable
Evaporation Rate: 0.084 times Slower than n-Butyl Acetate

Vapor Density: Heavier than air

Partition Coefficient: Not Available
% Volatile Weight: 25.4
% Volatile Volume: 49.4
Specific Gravity: 1.55237
Weight/Gallon: 13.1 lbs
VOC: 3.31 LBS/GAL
Heavy Elements (ppm): 0.

SECTION 4. FIRE AND EXPLOSION HAZARD DATA

Flammability Class: 2
Flash Range: 102.2°F
Explosive Range: 1.8%
12.7%

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

MATERIAL SAFETY DATA SHEET

MSDS Name: THURMALOX GRAY
 MSDS Number: 261-08
 Version Number
 MSDS Date: NOV-20-2012
 Page Number: 3 of 7

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
METHYL n-AMYL KETONE		
Inhalation	Rat	LC50 4000. PPM
Oral	Rat	LD50 1600. mg/kg
Skin	Rabbit	LD50 10206. mg/kg
BARIUM COMPOUND		
Oral	Rat	LD50 530. mg/kg
Skin	Rabbit	LD50 2000. mg/kg
C.I. PIGMENT BLACK 28		
Inhalation	Rat	LD50 11.1 Other
Oral	Rat	LD50 10000. mg/kg

PERMISSIBLE EXPOSURE LEVEL:

SEE SECTION VIII

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,

MATERIAL SAFETY DATA SHEET

MSDS Name: THURMALOX GRAY
MSDS Number: 261-08
Version Number
MSDS Date: NOV-20-2012
Page Number: 4 of 7

vomiting, and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

Pulmonary functions may be reduced by inhalation of respirable crystalline silica. Lung scarring produced by such inhalation may lead to progressive massive fibrosis of the lung which may aggravate other pulmonary conditions and diseases and which increased susceptibility to pulmonary tuberculosis. Progressive massive fibrosis may be accompanied by right heart enlargement, heart failure, and pulmonary failure. Smoking aggravates the effects of exposure.

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.

Acute and chronic prolonged exposure to respirable crystalline quartz may cause delayed lung injury, (silicosis). Silicosis is a form of disabling pulmonary fibrosis which can be progressive and may lead to death.

=====

SECTION 6. STABILITY AND REACTIVITY MEASURES

MATERIAL SAFETY DATA SHEET

MSDS Name: THURMALOX GRAY

MSDS Number: 261-08

Version Number

MSDS Date: NOV-20-2012

Page Number: 5 of 7

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.

Use dustless methods (vacuum), or flush with water. Do not dry sweep.

WASTE DISPOSAL METHOD:

Assure conformity with applicable federal, state and local regulations.

Dispose in accordance with Federal, State and Local Regulations.

Environmental hazard: Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a national pollutant discharge elimination system, (NPDES), permit and the permitting authority has been notified in writing prior to discharge. Do not discharge this product in local sewage

MATERIAL SAFETY DATA SHEET

MSDS Name: THURMALOX GRAY
 MSDS Number: 261-08
 Version Number
 MSDS Date: NOV-20-2012
 Page Number: 6 of 7

treatment plant without notifying them. For guidance contact your state water or regional office of the EPA.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
METHYL n-AMYL KETONE					
50.00 PPM	N/est	N/est	N/est	100.00 PPM	
BARIUM COMPOUND					
0.50 mg/M3	N/est	N/est	N/est	0.50 mg/M3	
C.I. PIGMENT BLACK 28					
N/est	N/est	N/est	N/est	N/est	
CRYSTALLINE SILICA					
0.10 mg/M3	N/est	0.05 mg/M3	0.05 mg/M3	0.10 mg/M3	

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:

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

Wear protective safety glasses when exposed to dust particles.

OTHER PROTECTIVE EQUIPMENT:

MATERIAL SAFETY DATA SHEET

MSDS Name: THURMALOX GRAY
MSDS Number: 261-08
Version Number
MSDS Date: NOV-20-2012
Page Number: 7 of 7

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
BARIUM COMPOUND	13701-59-2	13.39

-PROP 65 (CARCINOGEN)

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

Ingredient Name	CAS Number	Percent
BARIUM COMPOUND	13701-59-2	13.39
CRYSTALLINE SILICA	14808-60-7	0.14