

MATERIAL SAFETY DATA SHEET

MSDS Name: THURMALOX SILICONE BLACK

MSDS Number: 242C-02

Version Number

MSDS Date: MAY-14-2008

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SECTION 1. PRODUCT AND COMPANY INFORMATION

Product Name: THURMALOX SILICONE BLACK
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: INDUSTRIAL COATING
Trade Name: THURMALOX BLACK
Product Code: 242C-02

DOT Hazard Class: 3
UN Number: 1263
Shipping Name: PAINT

SECTION 2. INGREDIENT AND HAZARD INFORMATION

Ingredient Name	CAS Number	Percent	TSCA
ACETONE	67-64-1	11.98	Y
P-CHLOROBENZOTRIFLUORIDE	98-56-6	9.22	Y
XYLENE (HAPS)	1330-20-7	5.73	Y
BUTANOL	71-36-3	4.07	Y
CHROMIUM(III) COMPOUNDS	1308-38-9	3.89	Y
MANGANESE COMPOUNDS	N/A	2.94	Y
TOLUENE (HAPS)	108-88-3	2.30	Y
COPPER COMPOUNDS	N/A	2.15	Y

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MINERAL SPIRITS	8052-41-3	1.46	Y
CRYSTALLINE SILICA	14808-60-7	0.32	Y
NICKEL COMPOUNDS	N/A	0.19	Y
COBALT COMPOUND	N/A	0.17	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.

IARC has classified cobalt and cobalt compound as possible carcinogenic to humans (Group 2B, monograph #52).

Impurity: chromium (VI)-sodium chromate.

CEL 25 ppm 8 HR TWA

ACGIH recommends a TWA of 50 ppm for toluene (skin).

SPECIAL REMARKS SPECIFIC TO THIS RAW MATERIAL

NTP and IARC concludes that crystalline silica, (respirable) may reasonably be anticipated to be a carcinogen. National Institute for Occupational Safety and Health (NIOSH) recommends maximum permissible concentration 0.05 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.

Cobalt pigment is the result of high temperature calcination of the component substances. Due to its unique crystalline structure, the properties of this finished pigment do not necessarily reflect the properties of the component metal or oxides.

IARC considers nickel compounds to be carcinogenic to humans.

SECTION 3. PHYSICAL DATA

Form: LIQUID
 Appearance/Color: BLACK
 Odor: AROMATIC
 pH Value: Not Applicable
 Boiling Range: 133.°F - 400.°F
 Melting Point: Not Applicable

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Evaporation Rate: 1.701 times Faster than n-Butyl Acetate

Vapor Density: Heavier than air

Partition Coefficient Not Available

% Volatile Weight 34.82%

% Volatile 54.78%

Specific Gravity: 1.44954

Weight/Gallon: 12.13 lbs

VOC 2.43 LBS/GAL

Heavy Elements (ppm) 0.

SECTION 4. FIRE AND EXPLOSION HAZARD DATA

Flammability Class 1B
Flash Range: -4.°F - 109.°F
Explosive Range: 0.9%
10.5%

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
P-CHLOROBENZOTRIFLUORIDE		
Inhalation	Rat	LC50 4479. PPM

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Oral	Rat	LD50 6800. mg/kg
Skin	Rabbit	LD50 2700. mg/kg
XYLENE (HAPS)		
Inhalation	Unknown	LC50 26800. PPM
Oral	Unknown	LD50 4300. mg/kg
Skin	Unknown	LD50 2000. mg/kg
BUTANOL		
Inhalation	Rat	LD50 4 HOURS 8000. PPM
Oral	Rat	LD50 2500. mg/kg
Oral	Rabbit	LD50 3400. mg/kg
Skin	Rabbit	LD50 5300. mg/kg
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.

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.

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

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massive fibrosis may be accompanied by right heart enlargement, heart failure, and pulmonary failure. Smoking aggravates the effects of exposure.

Damage to humans: chronic overexposure of Butanol may aggravate pre-existing disorders, affect the hearing, anemia. Overexposure to Butanol has been found to cause the following effects in laboratory animals: anemia, liver abnormalities, kidney damage, eye and lung damage.

Butanol has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. the relevance of the findings to humans is uncertain.

Chromium compounds are poison by subcutaneous route.

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.

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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.

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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.

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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.

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WASTE DISPOSAL METHOD:

Assure conformity with applicable federal, state and local regulations.

Dispose in accordance with 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
ACETONE	750.00 PPM	N/est	1000.00 PPM	1000.00 PPM	750.00 PPM
P-CHLOROBENZOTRIFLUORIDE	N/est	N/est	N/est	N/est	N/est
XYLENE (HAPS)	100.00 PPM	N/est	150.00 PPM	150.00 PPM	100.00 PPM
BUTANOL	50.00 PPM	N/est	N/est	N/est	50.00 PPM
CHROMIUM(III) COMPOUNDS	0.50 mg/M3	N/est	N/est	N/est	0.05 mg/M3
MANGANESE COMPOUNDS	0.20 mg/M3	N/est	5.00 mg/M3	N/est	5.00 mg/M3
TOLUENE (HAPS)	50.00 PPM	N/est	100.00 PPM	100.00 PPM	100.00 PPM
COPPER COMPOUNDS	0.05 mg/M3	N/est	N/est	N/est	1.00 mg/M3
MINERAL SPIRITS	100.00 PPM	N/est	N/est	N/est	100.00 PPM
CRYSTALLINE SILICA	0.10 mg/M3	N/est	0.05 mg/M3	0.05 mg/M3	0.10 mg/M3
NICKEL COMPOUNDS	0.20 mg/M3	N/est	N/est	N/est	1.00 mg/M3

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COBALT COMPOUND

0.02 mg/M3 N/est N/est N/est 0.05 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.

Up to 5 X PEL any dust respirator

Up to 10 X PEL any fume respirator or efficiency particulate filter respirator.

Up to 50 X PEL a high efficiency particulate filter respirator with full facepiece. Any air supplied respirator with full facepiece helmet or hood.

Up to 500 X PEL a powered air purifying respirator with a high efficiency particulate filter.

> than 500 X PEL a self contained breathing apparatus with a full facepiece operated in pressure demand or other positive pressure mode.

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.

Wear protective safety glasses when exposed to dust particles.

OTHER PROTECTIVE EQUIPMENT:

Use chemical-resistant or other protective outerwear to protect

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against clothing contamination and skin contact.

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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.

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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
XYLENE (HAPS)	1330-20-7	5.73
BUTANOL	71-36-3	4.07
CHROMIUM(III) COMPOUNDS	1308-38-9	3.89
MANGANESE COMPOUNDS	N/A	2.94
TOLUENE (HAPS)	108-88-3	2.30
COPPER COMPOUNDS	N/A	2.15

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NICKEL COMPOUNDS N/A 0.19
COBALT COMPOUND N/A 0.17

-PROP 65 (CARCINOGEN)

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

Ingredient Name	CAS Number	Percent
ACETONE	67-64-1	11.98
CHROMIUM(III) COMPOUNDS	1308-38-9	3.89
CRYSTALLINE SILICA	14808-60-7	0.32
NICKEL COMPOUNDS	N/A	0.19
COBALT COMPOUND	N/A	0.17

-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	2.30

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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.
