



Thurmalox 250
SDS Preparation Date (mm/dd/yyyy): 06/19/2020

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label
: **Thurmalox Selective Black Solar Coating**
Product Code(s) : 250

Recommended use and restrictions on use:
Heat resistant, solar absorbent selective aerosol coating.
Recommended restrictions: None Known.

Name, address, and telephone number of the manufacturer:
Dampney Company, Inc.
85 Paris Street
Everett, Massachusetts, U.S.A. 02149
Email: sales@dampney.com
Supplier's Telephone #: (617) 389-2805

24 Hr. Emergency Tel # : Chemtrec 1-800-424-9300 (Within Continental U.S.)

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical
Black aerosolized liquid. Solvent odor.

Classification:

Flammable aerosols -	Category 1
Skin Corrosion/Irritation -	Category 2
Serious eye damage/Eye irritation -	Category 2A
Carcinogenicity -	Category 2
Reproductive Toxicity -	Category 2
Specific target organ toxicity -	Category 3
Specific target organ toxicity (repeated exposure) -	Category 2
Aspiration hazard -	Category 1
Gases under pressure - Compressed Gas	

Label elements

Hazard pictogram(s)



Signal Word

DANGER

Hazard statement(s)
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.



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H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H371 May cause damage to organs (Central Nervous System, Eyes, Kidney, Liver, Respiratory System, and Skin) through prolonged or repeated exposure.
H305 May be harmful if swallowed and enters airways.

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, sparks, open flames, hot surfaces. No smoking.
P280 Wear protective gloves, protective clothing, eye protection, and face protection.
P264 Wash face, hands and any exposed skin thoroughly after handling.
P261 Do not breathe dust, fume, gas, mist, vapours, or spray.
P271 Use only outdoors or in a well-ventilated area.
H229 Pressurized container: may burst if heated.
P211 Do not spray on an open flame or other ignition source.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/attention.
P321 Specific treatment see first aid on this label.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER, doctor, or hospital emergency room if you feel unwell.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER, doctor or hospital emergency room.
P331 Do NOT induce vomiting.

Storage:

P403 + P235 (S) Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Disposal:

P501 Dispose of contents and empty container in accordance with local, state and federal regulations. Causes skin irritation

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %*
Propane/Isobutane/n-Butane	68476-86-8	29.00
Para-Chlorobenzotrifluoride	98-56-6	18.71
Acetone	67-64-1	8.00
Aromatic Hydrocarbon	64742-95-6	8.00
Xylene	1330-20-7	5.37
Toluene	108-88-3	3.56
Ethyl Benzene	100-41-4	1.58



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SECTION 4. FIRST-AID MEASURES

First aid measures for different exposure routes

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.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable 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. Water spray. Dry chemical. Carbon Dioxide. Foam. **USE WATER WITH CAUTION.** Material will float and may ignite on surface of water.

Unsuitable Extinguishing Media: None known.

Specific hazards during firefighting: Do not allow run-off from fire fighting to enter drains or water courses.

Specific extinguishing methods: Use a water spray to cool fully closed containers.

Protective Equipment and Precautions for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use shielding to protect fire-fighters from bursting containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling:

Avoid contact with eyes. Avoid breathing vapors or mists. Avoid skin contact. Use with adequate ventilation. Keep away from heat, flames, and all other sources of ignition. Keep away from all sources of electricity such as electric motors and



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batteries.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions: Keep containers tightly closed in a cool, well-ventilated place.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV TWA	OSHA PEL TWA
Propane/Isobutane/N-Butane	1000.00 Ppm	1800.00 Mg/M3
Para-Chlorobenzotrifluoride	N/A	N/A
Aromatic Hydrocarbons	N/A	N/A
Acetone	750.00 Ppm	500.00 Ppm
Xylene (Haps)	100.00 Ppm	100.00 Ppm
Toluene	20.00 Ppm	200.00 Ppm
Ethyl Benzene	20.00 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:

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.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid and gas under pressure
Appearance/Color:	Black
pH Value:	Not Applicable
Boiling Range:	-43.7°F - 340.0°F
Melting Point:	Not Applicable
Evaporation Rate:	0.969 times faster than n-Butyl Acetate

Vapor Density: Heavier than air

Partition Coefficient	Not Available
% Volatile Weight	77.0%
% Volatile Volume	90.0%
Specific Gravity:	0.79345
Weight/Gallon:	7.6 lbs



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VOC 4.95 LBS/GAL
Heavy Elements (ppm) 0.0
Flammability Class 1A
Flash Range: -156.0°F – 115.0°F
Explosive Range: 1.0% - 10.0%

SECTION 10. STABILITY AND REACTIVITY

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 11. TOXICOLOGICAL INFORMATION

	Route	Species	Exposure and Dose
Para-Chlorobenzotrifluoride	Inhalation	Rat	LC50 4 HOURS 20,000 ppm
	Oral	Rat	LD50 13,000. mg/kg
	Skin	Rabbit	LD50 >2,700. mg/kg
Aromatic Hydrocarbon	Inhalation	Rat	LC50 6,193. mg/m ³
	Oral	Rat	LD50 3,492. mg/kg
	Skin	Rabbit	LD50 >3,160. mg/kg
Acetone	Inhalation	Rat	LC50 8 HOURS 50100 mg/m ³
	Oral	Rat	LD50 5800. mg/kg
Xylene (Haps)	Inhalation	Rat	LC50 4 HOURS 29.08 mg/l
	Oral	Rat	LD50 3500 mg/kg
	Skin	Rabbit	LD50 4350. mg/kg
Toluene (Haps)	Inhalation	Rat	LC50 4 HOURS 12.5. mg/L
	Oral	Rat	LD50 2600. mg/kg
	Skin	Rabbit	LD50 12000. mg/kg
Ethyl Benzene (Haps)	Inhalation	Rat	LC50 4 HOURS 17.2 mg/l
	Oral	Rat	LD50 3500 mg/kg
	Skin	Rabbit	LD50 15400. mg/kg

Reproductive toxicity

Toluene: Case studies of person abusing toluene suggest isolated incidences of adverse effects on the fetus including birth defects.

Carcinogenic toxicity

Toluene: No data available

Product	OSHA	IARC	NTP
Toluene	-	3	-



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Xylene - 3 -
 Ethyl Benzene - 2B -

EFFECTS OF OVEREXPOSURE:

Primary route(s) of entry:

(X) Dermal (X) Inhalation () Ingestion

SECTION 12. ECOLOGICAL INFORMATION

TOXICITY

PRODUCT	RESULT	SPECIES	EXPOSURE	
Para-Chlorobenzotrifluoride	LC50 11.5-15.8 mg/L	Lepomis macrochirus	96 hours	
	Toluene	EC50 433 ppm	Algae – Skeletonema Costatum	96 hours
		EC50 12,500 Micrograms/liter Fresh Water	Algae - Pseudokirchneriella Subcapitata	72 hours
		EC50 11,600 Micrograms/liter Fresh Water	Crustaceans – Gammarus pseudolimnaeus – Adult	48 hours
	EC50 6,000 Micrograms/liter Fresh Water	Daphnia – Daphnia magna Juvenile	48 hours	
	LC50 5,500 Micrograms/liter Fresh Water	Fish – Oncorhynchus kisutch – Fry	96 hours	
	NOEC 500,000 Micrograms Fresh Water	Algae – Pseudokirchneriella subcapitata	96 hours	
Xylene	NOEC 1,000 Micrograms/liter Fresh Water	Daphnia – Daphnia magna	21 days	
	LC50 13.4 Micrograms/liter	Pimephales promelas	96 hours flow-through	
	LC50 2.661-4.09 Micrograms/liter	Fish – Oncorhynchus mykiss	96 hours static	
Ethyl Benzene	LC50 13.5-17.3 Micrograms/liter	Fish – Oncorhynchus mykiss	96 hours	
	EC50 4.6 Micrograms/liter	Algae - Pseudokirchneriella Subcapitata	72 hours	
	EC50 438	Algae -	96 hours	



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Micrograms/liter	Pseudokirchneriella Subcapitata	
EC50 2.6-11.3 Micrograms/liter	Algae - Pseudokirchneriella Subcapitata	72 hours static
LC50 11.0-18.0 Micrograms/liter	Fish – Oncorhynchus mykiss	96 hours static
LC50 4.2 Micrograms/liter	Fish – Oncorhynchus mykiss	96 hours static
EC50 1.8-2.4 Micrograms/liter	Daphnia – Daphnia magna	48 hours

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal : Handle in accordance with good industrial hygiene and safety practice.
 Methods of Disposal : Dispose in accordance with all applicable regulations.

SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT		Limited Quantity			
IMDG		Limited Quantity			
ICAO/IATA	UN1950	Aerosols, Flammable	2.1		
SECTION 15 - REGULATORY INFORMATION					

U.S. Federal Regulations

Ingredient	TSCA	DSL	CERCLA RQ
Para-Chlorobenzotrifluoride	Y	Y	No
Acetone	Y	Y	5,000 lbs
Xylene	Y	Y	100 lbs
Toluene	Y	Y	1,000 lbs
Ethyl Benzene	Y	Y	1,000 lbs

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
Toluene	108-88-3	20-30%
Xylene	1330-20-7	1-10%
Ethyl Benzene	100-41-4	1-10



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WHMIS

Class A: Compressed gas
Class B5: Flammable aerosol
Class D2B: Toxic materials

RIGHT TO KNOW

Ingredient	CAS	New Jersey	Massachusetts	Pennsylvania
Para-Chlorobenzotrifluoride		Y	N	Y
Acetone	67-64-1	Y	Y	Y
Xylene	1330-20-7	Y	Y	Y
Toluene	108-88-3	Y	Y	Y
Ethyl Benzene	100-41-4	Y	Y	Y

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient Name	CAS Number	Prop 65
Toluene	108-88-3	Developmental
Ethyl Benzene	100-41-4	Carcinogen

SECTION 16. OTHER INFORMATION

NFPA

Health hazard 2
Flammability 3
Reactivity 0

Legend: ACGIH: American Conference of Governmental Industrial Hygienists
AICS: Australian Inventory of Chemical Substances
CA: California
CAS: Chemical Abstract Services
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: Code of Federal Regulations
CSA: Canadian Standards Association
DOT: Department of Transportation
EC50: Effective Concentration 50%.
EINECS: European Inventory of Existing Commercial chemical Substances
ENCS: Existing and New Chemical Substances
EPA: Environmental Protection Agency
HMIS: Hazardous Materials Identification System
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
IECSC: Inventory of Existing Chemical Substances
IMDG: International Maritime Dangerous Goods
Inh: Inhalation
KECI: Korean Existing Chemicals Inventory
KECL: Korean Existing Chemicals List
LC: Lethal Concentration
LD: Lethal Dose
N/Ap: Not Applicable
N/Av: Not Available
NFPA: National Fire Protection Association
NJ: New Jersey



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NIOSH: National Institute of Occupational Safety and Health
NOEC: No observable effect concentration
NTP: National Toxicology Program
OECD: Organization for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit
PICCS: Philippine Inventory of Chemicals and Chemical Substances
RCRA: Resource Conservation and Recovery Act
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TPQ: Threshold Planning Quantity
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References:

Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2015 (Chempendium, RTECs, HSDB, INCHEM).
OECD- The Global Portal to Information on Chemical Substances - eChemPortal, 2015
European Chemicals Agency, Classification Legislation, 2015 Material Safety Data Sheet from manufacturer.

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Other special considerations for handling

: Provide adequate information, instruction and training for operators.

DISCLAIMER

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 use of the material described herein. It is the responsibility of the purchaser or the user to ensure that this material is properly and safely used.

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