Dampney Company, Inc.
85 Paris Street
Everett, Massachusetts, U.S.A.02149
Email: sales@dampney.com
Telephone: (617) 389 2805

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

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

Recommended use and restrictions on use: Heat resistant reflective 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 North America)

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical
Black liquid. Solvent odor.

Classification:

Flammable Liquids - Category 2
Skin Irritation - Category 2
Serious eye damage/eye irritation - Category 2A
Reproductive Toxicity - Category 2
Carcinogen - Category 2
Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects
Specific Target Organ Toxicity, Single Exposure -Category 3 (respiratory)
Specific Target Organ Toxicity, Repeated Exposure - Category 2 (CNS)

Label elements

Hazard pictogram(s)

Signal Word
DANGER

Hazard statement(s)
Highly flammable liquid and vapour.
Causes skin irritation.
Causes serious eye irritation.
Suspected of damaging the unborn child.
Suspected of causing cancer.
May cause drowsiness or dizziness.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statement(s)
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, open flames and hot surfaces. - No smoking.
Keep container tightly closed.
Ground/Bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe mist or vapor.
Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/clothing and eye/face protection.

Response
If exposed or concerned: Get medical attention/advice.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Wash contaminated clothing before reuse.
If skin irritation occurs, get medical advice/attention.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
If eye irritation persists: Get medical advice/attention.
In case of fire: Use water fog, dry chemical, CO2 or 'alcohol' foam for extinction.

Storage
Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Keep cool.

Disposal
Dispose of contents/container in accordance with local regulation.

Other hazards
No OSHA defined hazard classes.
Other hazards which do not result in classification:
Burning produces obnoxious and toxic fumes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %*
Aromatic Hydrocarbon	64742-95-6	42.35
Xylene	1330-20-7	9.15
Toluene	108-88-3	5.68
1,2,4-Trimethylbenzene	95-63-6	3.29
Ethyl Benzene	100-41-4	2.52

SECTION 4. FIRST-AID MEASURES

First aid measures for different exposure routes

EYES – For eye contact, flush with running water for at least 15 minutes. If eye irritation persists: get medical advice / attention.
SKIN – Immediately flush with plenty of water, while removing contaminated clothing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.
INHALATION – If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTRE or doctor/physician if you feel unwell.
INGESTION – Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.

Most important symptoms and effects, both acute and delayed
Causes skin irritation. Redness, swelling, itching and dryness. May cause respiratory irritation. May cause coughing and breathing difficulties. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause headache, nausea, dizziness and other symptoms

of central nervous system depression. Causes serious eye irritation. Symptoms may include stinging and tearing. Prolonged exposure can cause central nervous system effects. Contains a chemical or chemicals which can cause birth defects or other reproductive harm. Suspected of causing cancer.
Chronic overexposure to xylene has been suggested to cause cardiac abnormality in humans.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide (CO2); Dry chemical; Alcohol resistant foam; Water fog.

Unsuitable Extinguishing Media: Do not use a solid water stream as it may scatter and spread fire.

Specific hazards during firefighting: Highly flammable liquid and vapour Vapours may ignite explosively. Vapours are heavier than air and may spread along floors. Static discharge, impact, friction, and heat may ignite exposed chemical material.
Empty containers may contain hazardous residues.

Hazardous combustion products: Carbon dioxide, carbon monoxide and other unidentified organic compounds.

Special fire-fighting procedures: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated I positive pressure mode.
Do not breathe fumes or vapours. Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray.
Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

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
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 batteries.
Conditions for safe storage, including any incompatibilities
Keep containers tightly closed in a cool, well-ventilated place.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
Aromatic Hydrocarbon	N/E	N/E	N/E	N/E	N/E
Xylene	N/E	N/E	N/E	150.00 ppm	100 ppm
Toluene	N/E	N/E	100.00 ppm	300.00 ppm	200.00 ppm
1,2,4-Trimethylbenzene	N/E	N/E	N/E	N/E	25.00 ppm
Ethyl Benzene	N/E	N/E	125.00 ppm	125.00 ppm	100.00 ppm

Respiratory Protection: If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.
Ventilation and engineering measures: Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure

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limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof equipment. In case of insufficient ventilation wear suitable respiratory equipment.
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
Appearance/Color	: Black
Odor	: Solvent
pH Value	: Not Applicable
Boiling Range	: 228.0°F – 340.0°F
Melting Point	: Not Applicable
Evaporation Rate	: 0.105 times slower than n-Butyl Acetate
Vapor Density	: Heavier than air
Partition Coefficient	: Not Available
% Volatile Weight	: 63.4%
% Volatile Volume	: 80.0%
Specific Gravity	: 1.11093
Weight/Gallon	: 9.28 lbs
VOC	: 5.86 LBS/GAL
Heavy Elements (ppm)	: 0.0
Flammability Class	: 1B
Flash Range	: 39.0°F – 127.4°F
Explosive Range	: 1.0% - 7.0%

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

Routes of Exposure:

Inhalation:	Yes
Skin & Eye:	Yes
Ingestion:	Yes
Skin Absorption:	Yes

Signs and symptoms of short-term (acute) exposure

Signs and symptoms of inhalation: May cause respiratory tract irritation. Coughing, difficulty breathing, and tightness in chest. May cause headache, nausea, dizziness and other symptoms of central nervous system depression.

Signs and symptoms of ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Signs and symptoms of skin: Causes skin irritation. Symptoms may include redness, edema, drying defatting and cracking of the skin.

Sign and symptoms of eyes: Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis.

Potential Chronic Health Effects: Prolonged exposure can cause central nervous system effects. Chronic manganese exposures can lead to neurological problems such as apathy, drowsiness, weakness, spastic gait, paralysis, and other neurological problems resembling Parkinsonism. These symptoms can become progressive and permanent if not treated

Mutagenicity: Not expected to be mutagenic in humans.

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Carcinogenicity: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).
Classification: Carcinogenicity- Category 2 Suspected of causing cancer.
Contains Ethylbenzene. Ethylbenzene is classified as carcinogenic by IARC (Group 2B) and ACGIH (Category A3).

Reproductive effects and Teratogenicity
This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).
Classification: Reproductive Toxicity - Category 2 Suspected of damaging the unborn child.
Contains Toluene. Toluene may cause fetotoxic effects at doses which are not maternally toxic, based on animal data.

Sensitization to material: Not expected to be a skin or respiratory sensitizer.

Specific target organ effects: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012). Classification: Specific target organ toxicity, single exposure - Category 3. May cause drowsiness or dizziness. May cause respiratory irritation.

Specific target organ toxicity (STOT), repeated exposure - Category 2 May cause damage to the central nervous system through prolonged or repeated exposure if inhaled.

Medical conditions aggravated by overexposure: Pre-existing skin, eye, respiratory and central nervous system disorders.

	Route	Species	Exposure and Dose
Xylene	Inhalation	Rat	LC50 4 hours 5000. ppm
	Skin	Rabbit	LD50 12126 mg/kg
Toluene	Inhalation	Rat	LC50 4 hours 28800. Mg/m3
	Oral	Rat	LD50 5580. Mg/kg
	Skin	Rabbit	LD50 12196 mg/kg
1,2,4-Trimethylbenzene	Oral	Rat	LD50 6000. Mg/kg
Ethyl Benzene	Oral	Rat	LD50 3500. Mg/kg
	Skin	Rabbit	LD50 15433 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Aromatic hydrocarbon	64742-95-6	9.22 mg/L (Rainbow trout)	N/Av	None.
Xylene	1330-20-7	8.2 mg/L (Rainbow trout)	N/Av	None.
Toluene	108-88-3	5.4 mg/L (pink salmon)	1.4 - 4.0 mg/L	None.
1,2,4-Trimethylbenzene	95-63-6	7.72 mg/L (Fathead minnow)	N/Av	None.
Ethylbenzene	100-41-4	4.2 mg/L (Rainbow trout)	1.13 mg/L/30 days	None.

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.

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SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	UN1263	Paint	3	II	Flammable
	May be shipped as Limited Quantity when transported in containers no larger than 5.0 liters; in packages not exceeding 30 kg gross mass.				
IMDG	UN1263	Paint	3	II	Flammable
	May be shipped as Limited Quantity when transported in containers no larger than 5.0 liters; in packages not exceeding 30 kg gross mass.				
ICAO/IATA	UN1263	Paint	3	II	Flammable
	Refer to the appropriate Packing Instruction, prior to shipping this material.				

SECTION 15 - REGULATORY INFORMATION

U.S. Federal Regulations

Ingredients	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Aromatic hydrocarbon	64742-95-6	Yes	None.	None.	No	N/A
Xylene	1330-20-7	Yes	100 lb/ 45.4 kg	None.	Yes	1%
Toluene	108-88-3	Yes	1000 lb/ 454 kg	None.	Yes	1%
1,2,4-Trimethylbenzene	95-63-6	Yes	None.	None.	Yes	1%
Ethylbenzene	100-41-4	Yes	1000 lb/ 454 kg	None.	Yes	0.1%

WHMIS
Class B2: Flammable liquid
Class D2A: Very toxic material

RIGHT TO KNOW

Ingredient	CAS	New Jersey	Massachusetts	Pennsylvania
Aromatic Hydrocarbon	64742-95-6	Y	N	Y
Xylene	1330-20-7	Y	Y	Y
Toluene	108-88-3	Y	Y	Y
1,2,4-Trimethylbenzene	95-63-6	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

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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
ATE: Acute Toxicity Estimate 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
ECHA: European Chemicals Agency
ECOTOX: U.S. EPA Ecotoxicology Database
EINECS: European Inventory of Existing Commercial chemical Substances
ENCS: Existing and New Chemical Substances
EPA: Environmental Protection Agency
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
IBC: Intermediate Bulk Container
IECSC: Inventory of Existing Chemical Substances
IMDG: International Maritime Dangerous Goods
IOC: Inventory of Chemicals
IUCLID: International Uniform ChemicaL Information Database
KECI: Korean Existing Chemicals Inventory
KECL: Korean Existing Chemicals List
LC: Lethal Concentration
LD: Lethal Dose
MA: Massachusetts
MN: Minnesota
N/Ap: Not Applicable
N/Av: Not Available
NIOSH: National Institute of Occupational Safety and Health
NJ: New Jersey
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
RI: Rhode Island
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
SDS: Safety Data Sheet / Material Safety Data Sheet
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References:

1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2015.
2. International Agency for Research on Cancer Monographs, searched 2015.
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2015 (Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.

SAFETY DATA SHEET

5. US EPA Title III List of Lists - 2015 version.
6. California Proposition 65 List -2015 version

Preparation Date (mm/dd/yyyy: 04/19/2024

Other special considerations for handling: Provide adequate information, instruction and training for operators.

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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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