



Thurmalox 270  
SDS Preparation Date (mm/dd/yyyy): 04/21/2022

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## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

Product identifier used on the label  
: **Thurmalox Black**  
Product Code(s) : 270

**Recommended use and restrictions on use:**

Heat resistant 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 liquid. Solvent odor.

Classification:

Flammable Liquids - Category 2  
Skin Irritation - Category 2  
Serious eye damage/eye irritation - Category 2A  
Carcinogen - Category 2  
Reproductive Toxicity - 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.



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Suspected of causing cancer.  
Suspected of damaging the unborn child.  
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/sparks/open flames/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.

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.

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

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. This product contains Manganese compounds. 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.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No    | Weight %* |
|---------------|-----------|-----------|
| Xylene        | 1330-20-7 | 30.60     |
| Toluene       | 108-88-3  | 26.88     |
| Ethyl Benzene | 100-41-4  | 6.72      |
| Carbon Black  | 1333-86-4 | 2.53      |
| n-Butanol     | 71-36-3   | 2.22      |



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|                     |            |      |
|---------------------|------------|------|
| Manganese Compounds | 75864-23-2 | 2.05 |
| Ethanol             | 64-17-5    | 1.75 |

The exact concentrations of the above listed chemicals are being withheld as a trade secret as allowed by 29CFR1910.1200.

### 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 (CO<sub>2</sub>); 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



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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<br>TWA | OSHA PEL<br>TWA                       |
|---------------------|------------------|---------------------------------------|
| Xylene              | 100.00 ppm       | 100.00 ppm (435 mg/m <sup>3</sup> )   |
| Toluene             | 20.00 ppm        | 200.00 ppm                            |
| Ethyl Benzene       | 20.00 ppm        | 100.00 ppm (435 mg/m <sup>3</sup> )   |
| Carbon Black        | N/A              | N/A                                   |
| n-Butyl Alcohol     | 20.00 ppm        | 100.00 ppm (300 mg/m <sup>3</sup> )   |
| Manganese Compounds | N/A              | N/A                                   |
| Ethanol             | 1000.00 ppm      | 1000.00 ppm (1900 mg/m <sup>3</sup> ) |

Respiratory Protection:

Use NIOSH approved respirator as required to prevent overexposure.

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:

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  
Appearance/Color: Black  
Odor: Solvent



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|                       |   |
|-----------------------|---|
| pH Value:             | Not Applicable                          |
| Boiling Range:        | 173.3°F - 293.0°F                       |
| Melting Point:        | Not Applicable                          |
| Evaporation Rate:     | 0.275 times faster than n-Butyl Acetate |
| Vapor Density:        | Heavier than air                        |
| Partition Coefficient | Not Available                           |
| % Volatile Weight     | 68.9%                                   |
| % Volatile Volume     | 82.14%                                  |
| Specific Gravity:     | 1.03343                                 |
| Weight/Gallon:        | 8.58 lbs                                |
| VOC                   | 5.9 LBS/GAL                             |
| Heavy Elements (ppm)  | 0.0                                     |
| Flammability Class    | 1B                                      |
| Flash Range:          | 45.0°F                                  |
| Explosive Range:      | 1.0% - 7.4%                             |

### 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:



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Not expected to be mutagenic in humans.

### 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 (Haps)        | Inhalation | Rat     | LC50 4 Hours      | 6350. ppm (27.6 mg/l) |
|                      | Oral       | Rat     | LD50              | 3253. mg/kg           |
|                      | Skin       | Rabbit  | LD50              | 12180. mg/kg          |
| Toluene (Haps)       | Inhalation | Rat     | LC50 4 Hours      | 7585. ppm (28.1 mg/l) |
|                      | Oral       | Rat     | LD50              | 5580. mg/kg           |
|                      | Skin       | Rabbit  | LD50              | 12125. mg/kg          |
| Ethyl Benzene (Haps) | Inhalation | Rat     | LC50 4 Hours      | 4000. ppm (17.4 mg/l) |
|                      | Oral       | Rat     | LD50              | 3500. mg/kg           |
|                      | Skin       | Rabbit  | LD50              | 15380. mg/kg          |
| Carbon Black         | N/A        | N/A     | N/A               | N/A                   |
| N-Butyl Alcohol      | Inhalation | Rat     | LC50 4 Hours      | 8000. ppm (24.3 mg/l) |
|                      | Oral       | Rat     | LD50              | 790. - 4360. mg/kg    |
|                      | Skin       | Rabbit  | LD50              | 3402. mg/kg           |
| Manganese Compounds  | N/A        | N/A     | N/A               | N/A                   |
| Ethanol              | Inhalation | Rat     | LC50 4 Hours      | 30000. mg/kg          |
|                      | Oral       | Rat     | LD50              | 10470. mg/kg          |
|                      | Skin       | Rabbit  | LD50              | 15800. mg/kg          |

## SECTION 12. ECOLOGICAL INFORMATION



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Ecotoxicity

| PRODUCT             | RESULT              | SPECIES        | EXPOSURE |
|---------------------|---------------------|----------------|----------|
| Xylene              | LC50 8.2 mg/l       | Rainbow trout  | 96 hours |
|                     | EC50 3.2 – 9.56mg/l | Daphnia magna  | 48 hours |
|                     | EC50 3.2 – 4.9 mg/l | Green Algae    | 96 hours |
| Toluene             | LC50 5.4 mg/l       | Pink Salmon    | 96 hours |
|                     | EC50 3.78 mg/l      | Water flea     | 48 hours |
|                     | N/A                 | N/A            | N/A      |
| Ethyl Benzene       | LC50 4.2 mg/l       | Rainbow trout  | 96 hours |
|                     | EC50 1.81 mg/l      | Daphnia magna  | 48 hours |
|                     | EC50 3.6 mg/l       | Green Algae    | 96 hours |
| Carbon Black        | N/A                 | N/A            | N/A      |
|                     | N/A                 | N/A            | N/A      |
|                     | N/A                 | N/A            | N/A      |
| Manganese Compounds | N/A                 | N/A            | N/A      |
|                     | N/A                 | N/A            | N/A      |
|                     | N/A                 | N/A            | N/A      |
| n-Butyl Alcohol     | LC50 1376 mg/l      | Fathead minnow | 96 hours |
|                     | EC50 1328 mg/l      | Daphnia magna  | 48 hours |
|                     | N/A                 | N/A            | N/A      |
| Ethanol             | LC50 14200 mg/l     | Fathead minnow | 96 hours |
|                     | LC50 5012 mg/l      | Daphnia magna  | 48 hours |
|                     | EC50 275 mg/l       | Green Algae    | 72 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              | 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. |                         |                            |               |           |



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|  |        |       |   |    |           |
|--|--------|-------|---|----|-----------|
| ICAO/IATA  | UN1263 | Paint | 3 | II | Flammable |
| Refer to the appropriate Packing Instruction, prior to shipping this material. |        |       |   |    |           |
| <b>SECTION 15 - REGULATORY INFORMATION</b>                                     |        |       |   |    |           |

#### U.S. Federal Regulations

| Ingredient         | CERCLA |     |           |
|--------------------|--------|-----|-----------|
|                    | TSCA   | DSL | RQ        |
| Xylene             | Y      | Y   | 100 lbs   |
| Toluene            | Y      | Y   | 1,000 lbs |
| Ethyl Benzene      | Y      | Y   | 1,000 lbs |
| n-Butyl alcohol    | Y      | Y   | 5,000 lbs |
| Manganese Compound | Y      | Y   | N/A       |

#### 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          | 1330-20-7  | 30.44%  |
| Toluene         | 108-88-3   | 27.10%  |
| Ethyl Benzene   | 100-41-4   | 6.66%   |
| n-Butyl Alcohol | 71-36-3    | 2.23%   |

#### WHMIS

Class B2: Flammable liquid  
Class D2A: Very toxic material

#### RIGHT TO KNOW

| Ingredient      | CAS       | New Jersey | Massachusetts | Pennsylvania |
|-----------------|-----------|------------|---------------|--------------|
| Xylene          | 1330-20-7 | Y          | Y             | Y            |
| Toluene         | 108-88-3  | Y          | Y             | Y            |
| Ethyl Benzene   | 100-41-4  | Y          | Y             | Y            |
| n-Butyl Alcohol | 71-36-3   | Y          | Y             | Y            |
| Ethanol         | 64-17-5   | 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





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### 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  
NFFPA: National Fire Protection Association  
NJ: New Jersey  
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.

Prepared by Dampney Company, Inc.  
85 Paris Street  
Everett, MA 02149

Tel. 617-389-2805  
Fax. 617-389-0484



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

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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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