



Thurmalox 270
SDS Preparation Date (mm/dd/yyyy): 06/09/2015

Page 1 of 9

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.);
Chemtrec 703-527-3887 (Outside 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.



SAFETY DATA SHEET

Causes serious eye irritation.
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 the 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 %*
Toluene	108-88-3	30-40
Xylene	1330-20-7	20-30
Ethyl Benzene	100-41-4	1-10
n-Butanol	71-36-3	1-5
Manganese Compounds	75864-23-2	1-5



SAFETY DATA SHEET

Ethanol	64-17-5	1-5
Carbon Black	1333-86-4	1-5

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 (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 in 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,



SAFETY DATA SHEET

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

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
pH Value:	Not Applicable
Boiling Range:	176.0°F - 293.0°F
Melting Point:	Not Applicable



SAFETY DATA SHEET

Evaporation Rate:	0.651 times faster than n-Butyl Acetate
Vapor Density:	Heavier than air
Partition Coefficient	Not Available
% Volatile Weight	67.4%
% Volatile Volume	82.1%
Specific Gravity:	1.0609
Weight/Gallon:	8.78 lbs
VOC	5.94 LBS/GAL
Heavy Elements (ppm)	0.0
Flammability Class	1B
Flash Range:	39.0°F – 95.0°F
Explosive Range:	1.0% - 11.2%

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.

Carcinogenicity:



SAFETY DATA SHEET

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	
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
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
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
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
Ethanol	Inhalation	Rat	LC50 4 Hours	30000. mg/kg
	Oral	Rat	LD50	10470. mg/kg
	Skin	Rabbit	LD50	15800. mg/kg
Manganese Compounds	N/A	N/A	N/A	N/A

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

PRODUCT	RESULT	SPECIES	EXPOSURE
Toluene	LC50 5.4 mg/l	Pink Salmon	96 hours



SAFETY DATA SHEET

	EC50 3.78 mg/l N/A	Water flea N/A	48 hours N/A
Xylene	LC50 8.2 mg/l EC50 3.2 – 9.56mg/l EC50 3.2 – 4.9 mg/l	Rainbow trout Daphnia magna Green Algae	96 hours 48 hours 96 hours
Ethyl Benzene	LC50 4.2 mg/l EC50 1.81 mg/l EC50 3.6 mg/l	Rainbow trout Daphnia magna Green Algae	96 hours 48 hours 96 hours
n-Butyl Alcohol	LC50 1376 mg/l EC50 1328 mg/l N/A	Fathead minnow Daphnia magna N/A	96 hours 48 hours N/A
Ethanol	LC50 14200 mg/l LC50 5012 mg/l EC50 275 mg/l	Fathead minnow Daphnia magna Green Algae	96 hours 48 hours 72 hours
Manganese Compounds	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A

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.				
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

CERCLA



Thurmalox 270
SDS Preparation Date (mm/dd/yyyy): 06/09/2015

SAFETY DATA SHEET

Ingredient	TSCA	DSL	RQ
Toluene	Y	Y	1,000 lbs
Xylene	Y	Y	100 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
Toluene	108-88-3	40-50%
Xylene	1330-20-7	10-20%
Ethyl Benzene	100-41-4	1-10%
n-Butyl Alcohol	71-36-3	1-5%

WHMIS

Class B2: Flammable liquid
Class D2A: Very toxic material

RIGHT TO KNOW

Ingredient	CAS	New Jersey	Massachusetts	Pennsylvania
Toluene	108-88-3	Y	Y	Y
Xylene	1330-20-7	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

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

Tel. 617-389-2805
Fax. 617-389-0484
Email mail@dampney.com

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Other special considerations for handling



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

Thurmalox 270
SDS Preparation Date (mm/dd/yyyy): 06/09/2015

Page 9 of 9

SAFETY DATA SHEET

: Provide adequate information, instruction and training for operators.

DISCLAIMER

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Last Page