



Thurmalox 8704K
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SECTION 1. IDENTIFICATION

Product identifier used on the label: Thurmalox 8704K
Product Code(s): 8704K Aluminum

Recommended use of the chemical and restrictions on use: Heat resistant coating
Use pattern: Professional use only
Recommended restrictions: None known.

Chemical family : Mixture

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
Silver liquid. Solvent odor.

Most important hazards: 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:

Acute toxicity (Inhalation) – Category 4
Acute toxicity (Oral) – Category 4
Eye irritation – Category 2
Flammable Liquid – Category 2
Specific Target Organ Toxicity - Single Exposure – Category 3 (Narcotic effects)

Label elements

Hazard pictogram(s)



Signal Word
DANGER!

Hazard statement(s)
H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.

Prevention
P210 Keep away from heat, sparks, open flames, hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical, ventilating, lighting, mixing, application equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust, fume, gas, mist, vapours, or spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, protective clothing, eye protection, and face protection.

Response



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P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER, doctor or hospital emergency room.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER, doctor, or hospital emergency room if you feel unwell.
P330 Rinse mouth.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P370 + P378 In case of fire: Use dry chemical, CO₂, water spray (fog) or foam to extinguish.

Storage:

P403 + P233 + P235 (S) Store in a cool, well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Disposal:

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

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.

Environmental precautions: Avoid release to the environment. See ECOLOGICAL INFORMATION, Section 12.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	Common name and synonyms	CAS #	Concentration
Acetone	Acetone	67-64-1	52.65
Aluminum powder	Alumina	7429-90-5	15.41
Methyl Amyl Ketone	Methyl Amyl Ketone	110-43-0	8.83
Petroleum Distillates	Mineral spirits White spirit	8052-41-3	7.25

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

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.

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.

Skin contact: Immediately flush with plenty of water, while removing contaminated clothing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.

Eye contact: For eye contact, flush with running water for at least 15 minutes. If eye irritation persists: get medical advice/attention.

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 redness, pain, tearing and conjunctivitis. Suspected of damaging fertility or the unborn child. May cause damage to the central nervous system through prolonged or repeated exposure if inhaled. Suspected of causing cancer.

Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically. This product is a CNS depressant.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

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.

Special hazards arising from the substance or mixture / Conditions of flammability: 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.

Flammability classification (OSHA 29 CFR 1910.106): Flammable Liquids - Category 2

Hazardous combustion products:

Carbon dioxide, carbon monoxide and other unidentified organic compounds.



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Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures: Do not breathe fumes or vapours. Move containers from fire area if safe to do so. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

Environmental precautions: Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

Methods and material for containment and cleaning up: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools and equipment in the clean-up process. Avoid breathing mist or vapours. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contact the proper local authorities. Refer to Section 13 for disposal of contaminated material.

Special spill response procedures: In case of a transportation accident, contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887. EPA/CERCLA.

Reportable quantity (RQ): None

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/clothing and eye/face protection. Use only in well-ventilated areas. Do not breathe mist or vapor. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep away from flames and hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharges. Ground all equipment during handling.

Conditions for safe storage: Keep container tightly closed. Store in cool, well-ventilated place. Store locked up. Keep cool. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking. Empty containers may contain hazardous residues.

Incompatible materials: Strong oxidizers, acids and bases.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

Chemical Name	ACGIH TLV		OSHA PEL	
	TWA	STEL	PEL	STEL
Acetone	N/A	750 ppm	1000 ppm 2400 mg/m ³	N/A
Aluminum powder	1 mg/m ³ (respirable)	N/Av	15 mg/m ³ (total dust); 5 mg/m ³ (respirable)	N/Av
Methyl Amyl Ketone	50 ppm	N/Av	100 ppm	N/Av
Petroleum Distillates	100 ppm	N/Av	500 ppm (2900 mg/m ³)	N/Av

Exposure controls

Ventilation and engineering measures: Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure 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.

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.

Skin protection: Wear protective gloves/clothing. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. Advice should be sought from glove suppliers.

Eye / face protection: Wear chemical goggles.

Other protective equipment: Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations: Do not breathe mist or vapor. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not take contaminated clothing home. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Silver liquid.



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Odour: Solvent odor.
pH: No information available.
Melting/Freezing point: Not available.
Initial boiling point and boiling range: 133.0 - 396.0°F
Flash point: 1.4 - 102°F
Flashpoint(Method): Closed cup
Evaporation rate (BuAe = 1): 7.546 times faster than n-Butyl Acetate
Flammability (solid, gas): Not applicable.
Lower flammable limit (% by vol.) : 1.0%
Upper flammable limit (% by vol.) : 7.0%
Oxidizing properties: None known.
Explosive properties Not explosive
Vapour pressure: Not available
Vapour density: > 1
Relative density / Specific gravity: 0.94314
Auto-ignition temperature: Not available.
Decomposition temperature: No information available.
Volatiles (% by weight): 69.00%
Volatiles (% by volume): 82.00%
Weight per gallon: 7.9 lbs
Volatile organic Compounds (VOC's): 3.48 lbs/gal

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive.
Chemical stability: Stable under normal conditions.
Possibility of hazardous reactions: Hazardous polymerization does not occur.
Conditions to avoid: Open flames, sparks, high heat, direct sunlight, and close proximity to incompatible substances. Do not use in areas without adequate ventilation.
Incompatible materials: Strong oxidizers, acids and bases.
Hazardous decomposition products: See Section 5 (Fire Fighting Measures).

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:
Routes of entry inhalation: YES
Routes of entry skin & eye: YES
Routes of entry Ingestion: YES
Routes of exposure skin absorption: YES
Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation: May cause respiratory tract irritation. Symptoms may include sore throat, running nose and shortness of breath. May cause headache, nausea, dizziness and other symptoms of central nervous system depression.
Sign and symptoms ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Sign and symptoms skin: Causes skin irritation. Symptoms may include redness, edema, drying defatting and cracking of the skin.
Sign and symptoms 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.

Mutagenicity: Not expected to be mutagenic in humans.
Carcinogenicity: Not expected to be carcinogenic in humans.

Reproductive effects & Teratogenicity: None.

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.

Synergistic materials: No information available.

Toxicological data: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data. See below for toxicological data on the substance.

Chemical name	LC50(4hr) inh, rat	LD50	
		(Oral, rat)	(Rabbit, dermal)



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Acetone	> 20.0 mg/L	> 2,000 mg/kg	>2,000 mg/kg
Aluminum powder	> 2.3 mg/L (dust) (No mortality)	> 2,000 mg/kg (No mortality)	N/Av
Methyl Amyl Ketone	16.7 mg/L	1,600 mg/kg	>2,001 mg/kg
Petroleum Distillates	> 5.5 mg/L (vapour)	> 5,000 mg/kg	> 3,000 mg/kg

Other important toxicological hazards: None reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: Contains material that may be harmful in the environment. Do not allow material to contaminate ground water system. See data for individual ingredient ecotoxicity data.

Ecotoxicity data:

Ingredients	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Acetone	67-64-1	100 mg/l (rainbow trout)	N/Av	None.
Aluminum powder	7429-90-5	N/Av	N/Av	None.
Methyl Amyl Ketone	110-43-0	N/Av	N/Av	None.
Petroleum Distillates	8052-41-3	2.1 - 4.2 mg/L (Bluegill sunfish)	N/Av	None.

Ingredients	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Acetone	67-64-1	100 mg/l (water flea)	N/Av	None.
Aluminum powder	7429-90-5	N/Av	N/Av	None.
Methyl Amyl Ketone	110-43-0	N/Av	N/Av	None.
Petroleum Distillates	8052-41-3	0.42 - 2.3 mg/L (Daphnia magna) (Closed systems - low end; Open systems - high end)	0.1 - 0.37 mg/L	None.

Ingredients	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Acetone	67-64-1	100 mg/l (green algae)	N/Av	None.
Aluminum powder	7429-90-5	N/Av	N/Av	None.
Methyl Amyl Ketone	110-43-0	N/Av	N/Av	None.
Petroleum Distillates	8052-41-3	0.58 - 1.2 mg/L/72hr (Green algae) (Closed systems - low end; Open systems - high end)	0.16 mg/L/72hr	None.

Persistence and degradability: No data is available on the product itself.

Bioaccumulation potential: No data is available on the product itself.

Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Acetone	-0.24	N/Av
Aluminum powder	N/Av	N/Av
Methyl Amyl Ketone	N/Av	N/Av
Petroleum Distillates	3.16 - 7.06	N/Av

Mobility in soil: No data is available on the product itself.

Other Adverse Environmental effects: None known.



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Acetone	67-64-1	No	N/Ap	No	Yes	No	Yes	Yes	Yes
Aluminum powder	7429-90-5	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Methyl Amyl Ketone	110-43-0	No	N/Ap	No	Yes	No	Yes	Yes	No
Petroleum Distillates	8052-41-3	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes

Canadian Information:

Canadian Environmental Protection Act (CEPA): All ingredients are present on the DSL. WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

International Information:

Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	New Zealand IOC
Acetone	67-64-1	200-662-2	Present	Present	2-542	KE-29367	Present	Present
Aluminum powder	7429-90-5	231-072-3	Present	Present	Not listed	KE-00881	Present	Present
Methyl Amyl Ketone	110-43-0	203-767-1	Present	Present	Present	Present	Present	Present
Petroleum Distillates	8052-41-3	232-489-3	Present	Present	(9)-1702; (9)-1702	KE-32199	Present	HSR001498

SECTION 16. OTHER INFORMATION

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



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

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

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

<p>Prepared by: Dampney Company, Inc. 85 Paris Street Everett MA 02149 U.S.A Telephone: (617) 389-2805 Please direct all inquiries to Dampney Company.</p>	
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DISCLAIMER

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