



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

Hi Temp 450 Lab Metal
SDS Preparation Date (mm/dd/yyyy): 10/17/2025

Page: 1 of 9

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label: Hi Temp 450 Lab Metal

Product Code(s): 10106

Recommended use of the chemical and restrictions on use: Metal Patching Compound

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.)

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Gray paste. 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:

Eye irritation – Category 2

Flammable Liquid – Category 2

Specific Target Organ Toxicity - Single Exposure – Category 3

Label elements

Hazard pictogram(s)



Signal Word

DANGER!

Hazard statement(s)

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statement(s)

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.

P271 Use only outdoors or in a well-ventilated area.



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Hi Temp 450 Lab Metal
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Page: 2 of 9

SAFETY DATA SHEET

P280 Wear protective gloves, protective clothing, eye protection, and face protection.

RESPONSE:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER, doctor, or hospital emergency room if you feel unwell.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER, doctor, or hospital emergency room.
P312 Call a POISON CENTER, doctor, or hospital emergency room if you feel unwell.
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.

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	CAS #	Concentration
Aluminum powder	7429-90-5	51.04
Methyl ethyl ketone	78-93-3	16.67
1-Methoxy-2- Propanol	107-98-2	7.92
Ethylene Glycol	107-21-1	0.25

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.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

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



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Hi Temp 450 Lab Metal
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Page: 3 of 9

SAFETY DATA SHEET

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

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 firefighting 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. EPA/CERCLA Reportable quantity (RQ): Methyl ethyl ketone (5000 lbs / 2270 kg)

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. 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	PEL STEL
	TWA	STEL		
Aluminum powder	1 mg/m ³ (respirable)	N/Av	15 mg/m ³ (total dust); 5 mg/m ³ (respirable)	N/Av
Methyl ethyl ketone	200 ppm	300 ppm	200 ppm (590 mg/m ³)	N/Av
1-Methoxy-2-Propanol	50 ppm	100 ppm	N/Av	N/Av
Ethylene glycol	25 ppm	10 mg/m ³	50 ppm (125 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 using local exhaust ventilation and good general extraction. Use



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Hi Temp 450 Lab Metal
SDS Preparation Date (mm/dd/yyyy): 10/17/2025

Page: 4 of 9

SAFETY DATA SHEET

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	: Gray Paste
Odour	: Solvent odor
Odour threshold	: Not available.
pH	: Not available.
Melting/Freezing point	: Not available.
Initial boiling point and boiling range	: 79.4-110.0°C (175-230°F)
Flash point	: -5.0-7.2°C (23-45°F)
Flashpoint (Method)	: Closed cup
Evaporation rate (BuAe = 1)	: 0.95 times faster

Lower flammable limit (% by vol.)	: 1.4%
Upper flammable limit (% by vol.)	: 11.5%
Vapour density	: Heavier than air
Relative density / Specific gravity	: 1.68256
Weight per gallon	: 14.01 lbs

Percent volatile by weight	: 21.37%
Percent volatile by volume	: 41.49%
Solubility in water	: N/Ap
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution	: Not available.
Volatile organic Compounds (VOC's)	: 2.99 lbs/gal

Other physical/chemical comments : None known or reported by the manufacturer.

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 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:



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Hi Temp 450 Lab Metal
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Page: 5 of 9

SAFETY DATA SHEET

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: This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Reproductive effects & Teratogenicity: This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

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.

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)
Aluminum powder	> 2.3 mg/L (dust) (No mortality)	> 2000 mg/kg (No mortality)	N/Av
Methyl ethyl ketone	11 300 ppm (33.3 mg/L (vapour)	2740 mg/kg	6480 mg/kg
1-Methoxy-2-Propanol	N/Av	N/Av	N/Av
Ethylene glycol	> 2.5 mg/L 6hr	7,712 mg/kg	10,600 mg/kg

Other important toxicological hazards: None reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: 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
Aluminum powder	7429-90-5	N/Av	N/Av	None.



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Hi Temp 450 Lab Metal
SDS Preparation Date (mm/dd/yyyy): 10/17/2025

Page: 6 of 9

SAFETY DATA SHEET

Methyl ethyl ketone	78-93-3	2993 mg/L (Fathead minnow)	N/Av	None.
1-Methoxy-2-Propanol	107-98-2	>100 mg/L (Rainbow trout)	N/Av	None.
Ethylene glycol	107-21-1	14-18 ml/L (Mykiss)	N/Av	None.

Ingredients	CAS No	Toxicity to Daphnia		
		EC50 / 48h/96h	NOEC / 21 day	M Factor
Aluminum powder	7429-90-5	N/Av	N/Av	None.
Methyl ethyl ketone	78-93-3	308 mg/L (Daphnia magna) 48h	N/Av	None.
1-Methoxy-2-Propanol	107-98-2	LC50 21,100 mg/L (Daphnia magna) 48h	N/Av	None.
Ethylene glycol	107-21-1	46,300 mg/L (Daphnia magna) 48h	N/Av	None.

Ingredients	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Aluminum powder	7429-90-5	N/Av	N/Av	None.
Methyl ethyl ketone	78-93-3	1,972 mg/L/72hr (Green algae)	1240 mg/L/96hr	None.
1-Methoxy-2-Propanol	107-98-2	>1,000 mg/ (Green algae)	N/Av	None.
Ethylene glycol	107-21-1	6,500 – 13,000 (Green algae)	N/Av	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)
Aluminum powder	N/Av	N/Av
Methyl ethyl ketone	0.29	3
1-Methoxy-2-Propanol	0.37	<2
Ethylene glycol	-1.93 log Pow	N/Av

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

Other Adverse Environmental effects: None known.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal: Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.

Methods of Disposal: Dispose in accordance with all applicable federal, state, provincial and local regulations.

RCRA: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state, and federal environmental agencies.

SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
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Hi Temp 450 Lab Metal
SDS Preparation Date (mm/dd/yyyy): 10/17/2025

Page: 7 of 9

SAFETY DATA SHEET

49CFR/DOT	UN1263	Paint	3	II	
Additional information	Special provision 149 allows this product to be shipped as a Limited Quantity. Inner package size must not exceed 5 liters (1.3 gallons) with a 30 kg gross per package.				
TDG	UN1263	PAINT	3	II	
Additional information	May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass.				
IMDG	UN1263	Paint	3	II	
Additional information	May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass.				
ICAO/IATA	UN1263	Paint	3	II	
Additional information	Refer to the appropriate Packing Instruction, prior to shipping this material.				

Special precautions for user: Appropriate advice on safety must accompany the package.

Environmental hazards: See ECOLOGICAL INFORMATION, Section 12.

SECTION 15 - REGULATORY INFORMATION

US Federal Information: Components listed below are present on the following U.S. Federal chemical lists:

Ingredients	CAS #	TSCA Inventory	CERCLA Reportable Quantity (RQ) (40CFR 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
Aluminum powder	7429-90-5	Yes	None.	None.	Yes	1%
Methyl ethyl ketone	78-93-3	Yes	5,000 lb/ 2,270 kg	None.	No	N/Ap
1-Methoxy-2-Propanol	107-98-2	Yes	None	None.	No	N/Ap
Ethylene glycol	107-21-1	Yes	5,000 lb/ 2,270 kg	None.	Yes	1%

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard; Immediate (Acute) health hazard; Chronic Health Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Aluminum powder	7429-90-5	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Methyl ethyl ketone	78-93-3	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes



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Hi Temp 450 Lab Metal
SDS Preparation Date (mm/dd/yyyy): 10/17/2025

Page: 8 of 9

SAFETY DATA SHEET

1-Methoxy-2-Propanol	107-98-2	No	N/Ap	No	Yes	No	Yes	Yes	Yes
Ethylene glycol	107-21-1	Yes	Developmental	No	Yes	No	Yes	Yes	No

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
Aluminum powder	7429-90-5	231-072-3	Present	Present	Not listed	KE-00881	Present	HSR001263 (coated, PGII); HSNO Approval: HSR001471, HSR001473 (coated, PGII); HSNO Approval: HSR001474 (pyrophoric); HSNO Approval: HSR001472 (uncoated, PGII)
Methyl ethyl ketone	78-93-3	201-159-0	Present	Present	(2)-542	KE-24094	Present	HSR001190
1-Methoxy-2-Propanol	107-98-2	203-539-1	Present	Present	(2)-404	KE-23379	Present	HSR001187
Ethylene glycol	107-21-1	203-473-3	Present	Present	Present	KE-13169	Present	N/Av

SECTION 16. OTHER INFORMATION

HMIS Classification: Health Hazard: 2
Flammability: 3
Physical Hazard: 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



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Hi Temp 450 Lab Metal
SDS Preparation Date (mm/dd/yyyy): 10/17/2025

Page: 9 of 9

SAFETY DATA SHEET

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:

ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2015.
International Agency for Research on Cancer Monographs, searched 2015.
Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2015 (Chempendium, HSDB and RTECs).
Material Safety Data Sheets from manufacturer.
US EPA Title III List of Lists - 2015 version.
California Proposition 65 List -2015 version

Preparation Date (mm/dd/yyyy): 10/17/2025

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

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