



Centre Anti-Poison pour le Québec: (800) 463-5060

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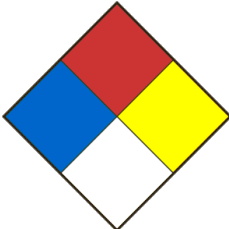
Fax. (Qc): (418) 660-8998

SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier DIMÉTHYLAMINE (SOLUTION AQUEUSE 40%)		Product Use Laboratory use	
Chemical formula (CH ₃) ₂ NH		Product code DS-0100	Molar weight 45,09
Chemical name / Commercial name / Synonymous Diméthylamine ; N,N-Diméthylamine; N-méthylméthanamine			
Supplier's name Laboratoire MAT		Address-Street 610, Adanac Street	
City Québec		Province Québec	
Postal code G1C 7B7	Internet www.labmat.com	Phone number 418-660-8666 / 800-890-8666	
Emergency phone	CANUTEC: 613-996-6666 CENTRE ANTI-POISON DU QUÉBEC 800-463-5060		
Date SDS 8/29/2022	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	Flammable liquids category 2 Skin corrosion/irritation - Skin corrosion category 1B Specific target organ toxicity - Single exposure category 3 Serious eye damage/eye irritation - Serious eye damage category 1	
Signal Word	DANGER	
Hazards statements (H)	H225 Highly flammable liquid and vapor. H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. H318 Causes serious eye damage.	
Precautionary statements (P)	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 equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe dust / fume / gas / mist / vapors / spray. P261 Avoid breathing dust / fume / gas / mist / vapors / spray. P264 Wash the areas of the body that have been in contact with the product after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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. P310 Immediately call a POISON CENTER or doctor/physician. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P321 Specific treatment (see section 4 of the SDS and on this label). P363 Wash contaminated clothing before reuse. P370 + P378 In case of fire: Use water spray or alcohol-resistant foam, or dry powder or carbon dioxide for extinction. P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company.	
PICTOGRAMS		
Other dangers	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Significant; 4=Extreme)	
	Health 2 Fire 4 Reactivity 0 Special danger	

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Diméthylamine	124-40-3	>=30-<60

SECTION 04 - FIRST AID MEASURES

Eye contact	Wash eyes with large amounts of water for at least 15 minutes while holding eyelids apart to rinse eyes. If irritation persists, seek medical attention.
Skin contact	Wash skin with plenty of water for at least 15 minutes. Remove soiled clothing. If irritation persists, seek medical attention.
Inhalation	Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.
Ingestion	If the person is conscious, give water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
Most important symptoms and effects (acute and delayed)	Main symptoms of high exposure: Lachrymator. Eye damage. Chemical burns of the skin. Cough. Pulmonary edema. Effects may be delayed. Skin sensitizer. Ref. section 11.
Immediate medical attention and special treatment, if necessary	In case of medical consultation, keep this sheet available.
General advice	Show this safety data sheet to the doctor in attendance.

SECTION 05 - FIREFIGHTING MEASURES

Flammability	Yes
Ignition conditions	Strong oxidizing agents, heat, sparks and open flame.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	Data not available.
Hazardous combustion products	Hazardous combustion products formed under fire conditions: Carbon oxides. Nitrogen oxides (NO _x).
Special fire and explosion hazards	Be careful with vapors that accumulate to form explosive concentrations. Vapors can accumulate in areas bass. Vapors may rise to the source of ignition and flash back. May react violently with incompatible products (Ref Section 10).
Special protective equipment and precautions for firefighters	Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus.

SECTION 06 - ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up / Personnel precautions, protective equipment	Evacuate personnel to safe areas. Cut off all sources of ignition. Avoid the accumulation of charges electrostatic. Ensure a good ventilation of the premises. When handling, wear appropriate safety equipment. Use a respirator as needed. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Neutralise with sodium bisulfate (NaHSO ₄). Absorb liquid with fly ash, cement powder, or commercial sorbents. Do NOT use mineral-based or clay-based absorbents. Dilute residues with water, clean and rinse. Dispose of residues in a container provided for the disposal of hazardous materials. Do not let product enter drains.
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SECTION 07 - HANDLING AND STORAGE

Conditions for safe storage	Store in a well-ventilated area. Keep container tightly closed and store away from incompatible products, heat, sparks, and open flame. Keep away from sources of heat and ignition. Use venting and electrical equipment that is grounded and does not produce ignition sources (sparks).
Methods of handling	Use a hood preferably. Ensure adequate ventilation. Avoid friction, heat, sparks, and flames. Avoid shock and friction. Avoid ingestion and inhalation. Avoid contact with the skin, eyes and clothes. Bottle in the glass preferably. Keep away from heat and sources of ignition. Wear personal protective equipment when handling. Always ensure good ventilation. Transport according to TDG (ref Section 14)

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace control parameters

Components	No.-CAS	Control parameters	Value	Basis
Dimethylamine in solution	124-40-3	TWA	5 ppm 9.2 mg/m ³	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		STEL	15 ppm 28 mg/m ³	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		TWA	5ppm	Canada. British Columbia OEL
Remarks	Substance with specific evidence of sensitization by dermal route			
		STEL	15ppm	Canada. British Columbia OEL
Remarks	Substance with specific evidence of sensitization by dermal route			
		TWAEV	5ppm	Quebec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		STEV	15ppm	Quebec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
Remarks	Sensitizer			

Data source	Sigma-Aldrich.
Ventilation	Fan.
Respiratory	If work under the hood is not possible, or if the permissible levels are exceeded, use a mechanical filter / cartridge against NIOSH vapors or a respirator with air supply.
Gloves	Handle with gloves.
Eyes	Tightly fitting safety goggles.
Shoes	Safety shoes.
Clothing	Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Engineering control	Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values.

SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid.
Appearance	Liquide incolore.
Odour	Donnée non disponible.
Odour threshold	0.00076ppm
pH	Donnée non-disponible.
Melting point / Freezing point	-92°C (Diméthylamine)°C
Initial boiling point	6.8°C (Diméthylamine)°C
Boiling range	Data not available
Flash point	-16°C
Evaporation rate	Data not available
Flammability	Yes
Lower flammable / Explosive limit	2.8% v/v
Upper flammable / Explosive limit	14.4% v/v
Vapour pressure	Data not available
Vapour density	1.170 hpa à 55°C-
Relative density	0.890g/ml
Solubility	Soluble dans l'eau..
Partition coefficient water/n-octanol	Data not available
Auto-ignition temperature	400°C (Diméthylamine)°C
Decomposition temperature	Data not available
Viscosity	Data not available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Flammable product, may ignite with source of ignition, if temperature above flash point. Basic product, reacts violently with strong acids.
Chemical stability	Unstable if heated.
Possibility of hazardous reactions	Flammable liquid and vapors.
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	Avoid the accumulation of static electricity. Avoid heat, open flame, friction and shocks. Avoid contact with incompatible materials.
Incompatible material	Acids. Oxydants. Violent reactions in contact with the following products: Chlorine Mercury. Copper. Copper compounds.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx).

SECTION 11 - TOXICOLOGICAL INFORMATION

Routes of exposure	Ingestion and inhalation.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Severe irritation and burning may cause permanent eye damage.
- Skin	Irritation and tissue burns.
- Inhalation	Harmful if inhaled. To our knowledge, the product has not been fully studied.
Acute toxicity (Ingestion)	Harmful if swallowed. To our knowledge, the product has not been fully studied.
Chronic exposure effects / symptoms	Causes burns by all routes of exposure. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
DL50 (specify species and route of entry)	LD50 Oral - Rat - 1000 mg/kg. LD50 Dermal - Rat - 3900 mg / kg
CL50 (specify species and route of entry)	LC50 Inhalation - Rat - 1h - 5290 ppm.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	Toxicity to fish: LC50 - Oncorhynchus mykiss (rainbow trout) - 17 mg/L - 96 h. Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - 46 mg/L - 48 h. Toxicity to algae: Static test EC50 - Pseudokirchneriella subcapitata - 6.2 mg/L - 96h.
Persistence and degradability	Data not available.
Bioaccumulative potential	Data not available.
Mobility in soil	Probable mobility due to its solubility in water.
Other adverse effects	Do not throw residues in the sewer.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method	Dispose of contents / container in accordance with local / regional / national / international regulations / or contact a specialist waste disposal company.
Contaminated Packaging	Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION

UN Number	1160
UN Proper shipping name	DIMÉTHYLAMINE, SOLUTION AQUEUSE
Transport hazard class(es)	3 Flammable liquids 8 Corrosive substances
Packing group	II
Limited quantity index	1L
ERAP Index	-
Special precautions	-

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Flammable liquids category 2 Skin corrosion/irritation - Skin corrosion category 1B Specific target organ toxicity - Single exposure category 3 Serious eye damage/eye irritation - Serious eye damage category 1
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SECTION 16 - OTHER INFORMATION

Further information

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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