



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

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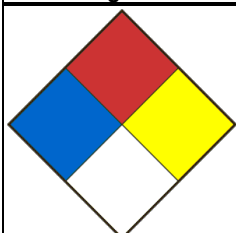
SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier DIETHYLAMINE		Product Use Laboratory use	
Chemical formula (C ₂ H ₅) ₂ NH		Product code DP-0104	Molar weight 73,14
Chemical name / Commercial name / Synonymous DIETHYLAMINE, N-ÉTHYLETHANAMINE, N-ÉTHYLE-ÉTHANAMINE			
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 3/31/2021	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 1A Serious eye damage/eye irritation - Serious eye damage category 1 Acute toxicity - Oral category 4 Acute toxicity - Dermal category 3 Acute toxicity - Inhalation category 4 Specific target organ toxicity - Single exposure category 3
Signal Word	DANGER
Hazards statements (H)	H225 Highly flammable liquid and vapor. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H332 Harmful if inhaled. H335 May cause respiratory irritation.
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. 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/face protection. P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. 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). P330 Rinse mouth. P361 + P364 Take off immediately all contaminated clothing and wash it before reuse. 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=Signifiant; 4=Extreme)
	Health 2 Fire 3 Reactivity 0 Special danger

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Diéthylamine	109-89-7	<=100

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: Skin, eye and respiratory system irritation. Cough. Pulmonary edema. Eye damage. 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	Heat, sparks and open flame.
Suitable extinguishing media	Water spray, carbon dioxide, dry chemical powder, alcohol or polymer foam.
Unsuitable extinguishing media	Do not use a concentrated stream of water that could spread fire.
Hazardous combustion products	Hazardous combustion products formed under fire conditions: Carbon oxides, Nitrogen oxides (NO _x).
Special fire and explosion hazards	Steam can travel a great distance and ignite on sources of ignition such as heaters, electrical appliances, cigarettes, sparks, etc. Containers exposed to fire may explode. This product may ignite in the presence of cellulose nitrate if the contact area is large enough.
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. Recommended distance: at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids. Remove all sources of ignition. Ensure adequate ventilation. Absorb the product with sand or vermiculite. Dilute residues with water, clean and rinse. Ensure a good ventilation of the premises. Dispose of residues in a container for disposal of hazardous materials. When handling, wear suitable safety equipment. Use breathing apparatus if necessary. Do NOT use absorbents composed with minerals, clay, or cellulose. Do not let product enter drains.
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SECTION 07 - HANDLING AND STORAGE

Conditions for safe storage	Store in a cool, dry place. Keep container tightly closed and store away from heat, sparks and open flame. Use venting and electrical equipment that is grounded and does not produce ignition sources (sparks). Protect from the sun's rays.
Methods of handling	Ensure good ventilation. Always open containers slowly to allow any excess pressure to vent. Avoid ingestion and inhalation. 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

Component	No.-CAS	Value	Basis
Diethylamine	109-89-7	TWA: 5 ppm TWA: 15 mg/m ³ STEL: 15 ppm STEL: 45 mg/m ³ Skin	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		TWA: 5 ppm TWA: 15 mg/m ³ STEL: 15 ppm STEL: 45 mg/m ³ Skin	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		TWA: 5 ppm STEL: 15 ppm Skin	Canada. British Columbia OEL
		TWA: 5 ppm STEL: 15 ppm Skin	Canada. Ontario OELs
		TWA: 5 ppm STEL: 15 ppm Skin	ACGIH TLV

Data source	Fisher Scientific
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	Safety goggles with safety shutters.
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	Poisson.
Odour threshold	0.02ppm
pH	12.0.
Melting point / Freezing point	-50°C
Initial boiling point	55°C
Boiling range	Data not available
Flash point	-28°C
Evaporation rate	16.9%
Flammability	Yes
Lower flammable / Explosive limit	1.8%
Upper flammable / Explosive limit	10.1%
Vapour pressure	189.0 mm @ 20°CmmHg
Vapour density	2.52 (Air=1)-
Relative density	0.707g/cm ³
Solubility	Miscible en toutes proportions avec l'eau. Miscible avec l'alcool.
Partition coefficient water/n-octanol	Data not available
Auto-ignition temperature	312°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	Sensitive to heat. Air sensitive.
Possibility of hazardous reactions	
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	Avoid excessive heat. Avoid contact with incompatible materials.
Incompatible material	Strong oxidizing agents (nitric acid, perchloric acid, peroxides, chlorates and perchlorates), strong acids (sulfuric acid), cellulose nitrate, base metals, heat and humidity.
Hazardous decomposition products	Toxic vapors of nitrogen oxides, monoxide and carbon dioxide.

SECTION 11 - TOXICOLOGICAL INFORMATION

DIETHYLAMINE

Routes of exposure	Ingestion, inhalation, skin and eyes.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Severe irritation and burns that may cause permanent eye damage.
- Skin	Severe irritation and tissue burns.
- Inhalation	Spasms, irritation and inflammation of the nose, throat and lungs. Edema of the larynx and bronchi. Chemical pneumonitis and pulmonary edema that can lead to death.
Acute toxicity (Ingestion)	Irritation and burning of the mouth, throat, esophagus and abdominal wall. Dysphagia, abdominal pain, cramps, diarrhea, faecal occult blood, headache, dizziness, sweating, salivation, convulsions, stricture, circulatory collapse, unconsciousness, coma and can lead to death.
Chronic exposure effects / symptoms	Burning sensation, skin allergy, lung and eye damage, nervous disorder, chest pain, cough, dyspnea, laryngitis, headache, dizziness, confusion, irritability, tearing, sweating, salivation, fatigue, weight loss and loss of appetite, convulsions, nausea and vomiting.
DL50 (specify species and route of entry)	LD50 Oral - Rat - 540 mg/kg. LD50 Dermal - Rabbit - 580 mg/kg.
CL50 (specify species and route of entry)	CL50 inhalation - Rat 4000 ppm/4 h.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	Toxicity to fish: LC50 - <i>Oryzias latipes</i> : 27 mg/L - 96h. Toxicity to daphnia and other aquatic invertebrates: Semi-static test: CE50- <i>Ceriodaphnia dubia</i> (water flea) - 4.6 mg/L - 48h.
Persistence and degradability	Biodegradability aerobic - Result: 70 % - Readily biodegradable.
Bioaccumulative potential	Data not available.
Mobility in soil	Probable mobility in the environment due to its volatility.
Other adverse effects	Toxic to aquatic life. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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	1154
UN Proper shipping name	DIÉTHYLAMINE
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 1A Serious eye damage/eye irritation - Serious eye damage category 1 Acute toxicity - Oral category 4 Acute toxicity - Dermal category 3 Acute toxicity - Inhalation category 4 Specific target organ toxicity - Single exposure category 3
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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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