

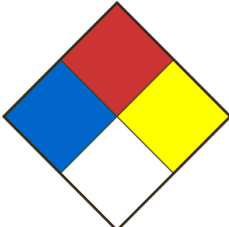


SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier N,N-DIMETHYLACETAMIDE		Product Use Laboratory use	
Chemical formula CH ₃ CON(CH ₃) ₂		Product code DR-0122	Molar weight 87,12
Chemical name / Commercial name / Synonymous N,N-DIMETHYLACETAMIDE, DIMETHYL ACETAMIDE, ACIDE ACÉTIQUE DIMÉTHYLAMIDE, DIMETHYLACETONE AMIDE, DIMETHYLAMIDE ACETATE, DMAC			
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 Lun-Ven 8h-16h	
Emergency phone	418-660-8666 Lun-Ven 8h-16h CENTRE ANTI-POISON DU QUÉBEC 800-463-5060		
Date SDS 1/28/2025	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	Reproductive toxicity category 1B Liquides inflammables category 4 Acute toxicity - Dermal category 4 Acute toxicity - Inhalation category 4 Serious eye damage/eye irritation - Eye irritation category 2
Signal Word	DANGER
Hazards statements (H)	H227 Combustible liquid. H312 Harmful in contact with skin. H319 Causes serious eye irritation. H332 Harmful if inhaled. H360 May damage fertility or the unborn child.
Precautionary statements (P)	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat, sparks, open flames, hot surfaces. — No smoking. P261 Avoid breathing mists, gases, vapors and other fumes, or the product itself. P264 Wash thoroughly after handling. P280 Wear protective gloves, protective clothing and eye and face protection. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. 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. P308 + P313 IF exposed or concerned: Get medical advice/attention. 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). P337 + P313 If eye irritation persists: Get medical advice/attention. P362 + P364 Take off contaminated clothing and wash it before reuse. P370 + P378 In case of fire: Use water spray or alcohol-resistant foam, or dry powder or carbon dioxide for extinction. P403 Store in a well-ventilated place. P405 Store locked up. P501 Dispose of contents and container in accordance with local, regional and national 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 2 Reactivity 0 Special danger

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%P/P)
N,N-Diméthylacétamide	127-19-5	<=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	Do NOT induce vomiting. If the person is conscious, rinse the mouth with water. 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: Eyes irritation. Skin irritation. Ref. section 11.
Immediate medical attention and special treatment, if necessary	Treat according to symptoms. Show this sheet to the attending physician.

SECTION 05 - FIREFIGHTING MEASURES

Flammability	No
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	Do not use a jet of water.
Hazardous combustion products	Hazardous combustion products formed under fire conditions: Carbon oxides, Nitrogen oxides (NO _x).
Specific hazards of the dangerous product	May react violently with incompatible products (Ref Section 10). Keep product and empty containers away from heat and sources of ignition. Steam can travel a great distance and ignite on sources of ignition such as heaters, electrical appliances, cigarettes, sparks, etc. Violent exothermic reactions with highly halogenated compounds (carbon tetrachloride, hexachlorocyclohexane) when heated above 90 ° C. NB: the presence of iron powder can catalyze this reaction at a lower temperature (71 ° C).
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. 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. When handling, wear appropriate safety equipment. Use NIOSH cartridge respiratory protection for larger spills. (Reference Section 8 for protective equipment to be used.) Avoid breathing vapors, mist or gas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Remove all sources of ignition. Avoid the accumulation of charges electrostatic. Use anti-spark tools and anti-explosion equipment. Do not let product enter drains.
--	--

SECTION 07 - HANDLING AND STORAGE

Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Store in cool place. Protect from the sun's rays. Keep away from sources of heat and ignition. Close all opened containers carefully and store vertically to avoid any flow. Hygroscopic.
Methods of handling	Bottle in glass containers only. This product attacks certain plastics, rubbers and coatings. Avoid contact with the skin, eyes and clothes. Avoid ingestion and inhalation. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Do not use tools that produce sparks. Wear personal protective equipment when handling. Always ensure good ventilation. Apply the usual standard hygiene rules: Wash your hands after use. Do not eat or drink during use.

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace control parameters

Components	CAS-No.	Control	Value	Basis
N,N-DIMETHYLACETAMIDE	127-19-5	TWA	10 ppm 36 mg/m ³	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
Remarks	The substance can be easily absorbed through intact skin			
		TWA	10 ppm	Canada. British Columbia OEL
	Adverse effect on reproduction. Contributes significantly to overall dermal exposure.			
		VEMP	10 ppm 36 mg/m ³	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
	Skin (percutaneous)			

Data source	Sigma-Aldrich.
Ventilation	Use fan.
Respiratory	If permitted levels are exceeded, use NIOSH cartridge respiratory protection, or an air-supplied respirator.
Gloves	Handle with gloves. Suggested material: Viton® (Fluoroelastomer). Nitrile. Butyle. The type, thickness and length of the glove must be chosen according to the use, the concentration of the product, as well as the duration of use. Replace gloves regularly for better protection.
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	Clair et incolore.
Odour	Ammoniaque.
Odour threshold	47ppm
pH	Solution aqueuse 20% = pH 4.0 - 7.0.
Melting point / Freezing point	-20°C
Initial boiling point	164.5-166°C
Boiling range	164.5-166°C
Flash point	64°C
Evaporation rate	< 0.17 (Butyl Acetate = 1.0).
Flammability	No
Lower flammable / Explosive limit	1.8%
Upper flammable / Explosive limit	11.5%
Vapour pressure	2 hPa à 21.7 °C.
Vapour density	3.01 - (Air = 1.0)-
Relative density	0.937g/cm ³
Solubility	Miscible avec l'eau en toutes proportions. Miscible avec la plupart des solvants organiques.
Partition coefficient water/n-octanol	log Pow: -0.77.
Auto-ignition temperature	490°C
Decomposition temperature	Data not available
Viscosity	1.02 mPa s @ 20 °C.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	May react violently with incompatible substances.
Chemical stability	Stable under recommended storage conditions. Hygroscopic.
Possibility of hazardous reactions	Stable under normal conditions.
Conditions to avoid, including static discharge, shock or vibration	Avoid excessive heat. Avoid contact with incompatible materials and extreme temperatures. Heat, flames, sparks. Avoid moisture.
Incompatible materials	Strong oxidizing agents (nitric acid, perchloric acid, peroxides, chlorates and perchlorates), highly halogenated compounds (carbon tetrachloride, hexachlorocyclohexane), heat and moisture.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. Carbon oxides, Nitrogen oxides (NOx).

SECTION 11 - TOXICOLOGICAL INFORMATION

N,N-DIMETHYLACETAMIDE

Routes of exposure	Ingestion, inhalation, skin and eyes.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Irritation and tearing.
- Skin	Irritation and dermatitis.
- Inhalation	Irritation of the mucous membranes and respiratory tract. Nervous disorders, liver damage (hypertrophy, necrosis), cough, dyspnea, headache, dizziness, confusion, drowsiness, delirium, depression, fatigue, nausea and vomiting.
Acute toxicity (Ingestion)	Irritation of the mucous membranes. Gastrointestinal disorders, liver damage, cramps, diarrhea, headache, dizziness, drowsiness, confusion, hallucination, delirium, depression, seizures, nausea and vomiting.
Chronic exposure effects / symptoms	Is recognized as a possible carcinogen for humans (class 2B) by IARC. Burning sensation, dermatitis, nervous disorders, liver damage (jaundice), chest pain, cough, dyspnea, headache, dizziness, confusion, drowsiness, irritability, tearing, tiredness, nausea and vomiting. Prolonged exposure may cause reproductive abnormalities in humans. May cause malformations of the fetus.
DL50 (specify species and route of entry)	LD50 Oral - Rat - 5680 mg/kg. LD50 Dermal - Rat - >2000 mg/kg
CL50 (specify species and route of entry)	CL50 inhalation - Rat 2475 ppm - 1 h.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	LC50 - Leuciscus idus (Golden orfe) - Static test: >500 mg/L - 96 h. EC50 - Daphnia magna (Water flea) - Immobilization >500 mg/L - 48 h. EC50 - Desmodesmus subspicatus (green algae) - Static test: >500 mg/L - 72 h.
Persistence and degradability	Aerobic Biodegradability - Duration of exposure 14 days Result: 77 - 83% - Readily biodegradable. (OECD Guideline 302).
Bioaccumulative potential	Data not available.
Mobility in soil	Probable mobility in the environment 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 and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company.
Contaminated Packaging	Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION

UN Number	N/R
UN Proper shipping name	
Transport hazard class(es)	
Packing group	
Limited quantity index	
ERAP Index	
Special precautions	

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Reproductive toxicity category 1B Liquides inflammables category 4 Acute toxicity - Dermal category 4 Acute toxicity - Inhalation category 4 Serious eye damage/eye irritation - Eye irritation category 2
--------------	--

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.

Last Update: 1/28/2025