



Centre Anti-Poison pour le Québec: (800) 463-5060
Tél. (Qc): (418) 660-8666 / 800-890-8666
Fax. (Qc): (418) 660-8998

SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier FORMAMIDE		Product Use Laboratory use	
Chemical formula HCONH ₂		Product code FR-0107	Molar weight 45,04
Chemical name / Commercial name / Synonymous METHANAMIDE, CARBAMALDEHYDE, ETHANAMIDE, AMIDE C1, FORMIC AMIDE			
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 7/9/2020	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	Carcinogenicity category 2 Reproductive toxicity category 1B Specific Target Organ Toxicity - Repeated exposure category 2		
Signal Word	DANGER		
Hazards statements (H)	H351 Suspected of causing cancer. H360 May damage fertility or the unborn child. H373 May cause damage to organs through prolonged or repeated exposure.		
Precautionary statements (P)	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust / fume / gas / mist / vapours / spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P308 + P313 IF exposed or concerned: Get medical advice/attention. P314 Get medical advice/attention if you feel unwell. 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 1 Reactivity 1 Special danger		

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Formamide	75-12-7	<=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, 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)	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	No
Ignition conditions	Non flammable. May ignite if heated strongly.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	Data not available.
Hazardous combustion / decomposition products	Hazardous decomposition products formed under fire conditions. Carbon oxides, Nitrogen oxides (NOx). Ammonia.
Special fire and explosion hazards	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. 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. Avoid breathing vapours, mist or gas. Do not let product enter drains. Discharge into the environment must be avoided.
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SECTION 07 - HANDLING AND STORAGE

Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Close all opened containers carefully and store vertically to avoid any flow. Recommended storage temperature 2 - 8 ° C. Additional Information: Attacks natural rubber, copper, bronze or lead.
Methods of handling	Since its melting point is close to room temperature, it may be necessary to heat the product before it can be used. Avoid contact with the skin, eyes and clothes. Avoid inhalation of vapour or mist. Use a hood preferably.

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace control parameters

Components	CAS-No.	Value	Control parameters	Basis
Formamide	75-12-7	TWA	10.000000 ppm 18.000000 mg/m ³	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
Remarks	Substance may be readily absorbed through intact skin			
		TWA	10.000000 ppm	Canada. British Columbia OEL
	Contributes significantly to the overall exposure by the skin route.			
		TWAEV	10.000000 ppm 18.000000 mg/m ³	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
	Skin (percutaneous)			
		TWA	10.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)

Data source	Sigma-Aldrich.
Ventilation	Use fan.
Respiratory	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	Incolore / jaune.
Odour	Ammoniaque.
Odour threshold	Data not available
pH	7.1 (solution aqueuse 0.5M).
Melting point / Freezing point	2-3°C
Initial boiling point	210°C
Boiling range	Data not available
Flash point	175°C
Evaporation rate	<300 (éther = 1).
Flammability	No
Lower flammable / Explosive limit	2.7%
Upper flammable / Explosive limit	19%
Vapour pressure	0.08 hPa à 20 °C.
Vapour density	1.56 - (Air = 1.0)-
Relative density	1.134g/ml
Solubility	Soluble dans l'alcool et l'acétone. Insoluble dans éthanol..
Partition coefficient water/n-octanol	log Pow: -0.82.
Auto-ignition temperature	500°C
Decomposition temperature	>180°C
Viscosity	3.75 mPa.s à 20 °C.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Non-reactive under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Stable under normal conditions.
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	Heat.
Incompatible material	Bases, Oxidants, Hydrogen Peroxide, Iodine, Pyridine, Sulfur Oxides. Strong oxidizing agents, strong acids. He attacks copper, bronze and lead.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. Carbon oxides, Nitrogen oxides (NOx). Ammonia.

SECTION 11 - TOXICOLOGICAL INFORMATION

FORMAMIDE

Routes of exposure	Ingestion, inhalation, skin and eyes.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Irritation and may cause inflammation of the conjunctiva.
- Skin	Irritation and dermatitis.
- Inhalation	Irritation of mucous membranes and respiratory tract. Nervous disorders, chest pain, cough, dyspnea, headache, dizziness, drowsiness, nausea and vomiting, convulsions and may lead to unconsciousness.
Acute toxicity (Ingestion)	Irritation of the mucous membranes. Gastrointestinal disorders, liver and kidney damage, cramps, diarrhea, headache, dizziness, tremors, convulsions, respiratory collapse, unconsciousness, coma and can lead to death.
Chronic exposure effects / symptoms	Burning sensation, dermatitis, conjunctivitis, nervous disorders, liver and kidney damage, pain in chest, cough, dyspnea, laryngitis, headache, dizziness, drowsiness, irritability, asthenia, loss of weight and loss of appetite, nausea and vomiting. May impair fertility or the fetus Ataxia (Movement Coordination Disorders). The following lesions may occur after absorption: Liver, Kidney.
DL50 (specify species and route of entry)	LD50 Oral - Rat - Male et female - 5325 mg/kg. LD50 Dermal - Rat - Male et female - > 3000 mg/kg
CL50 (specify species and route of entry)	CL50 inhalation - Rat Male - > 21 mg/L - 4 h.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	LC50 - Leuciscus idus (Golden orfe) - Static test: 6569 mg/L - 96 h. CL50 - Brachydanio rerio Static test: 9135 mg/L - 96 h. EC50 - Daphnia magna (Water flea) - Static test: >500 mg/L - 48 h. CE50-activated sludge Static test: > 1000 mg/L - 30 min. EC50 - Desmodesmus subspicatus (green algae) - >500 mg/L - 72 h.
Persistence and degradability	Aerobic Biodegradability - Duration of exposure 28 days Result: 99% - Readily biodegradable. (OECD Guideline 301 A).
Bioaccumulative potential	Data not available.
Mobility in soil	Soluble in water. Probable mobility in the environment due to its solubility in water.
Other adverse effects	All littering must be avoided in the environment. In the event of an appropriate evacuation, no disturbance is to be expected in the stations biologically adapted purification systems.

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	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	Carcinogenicity category 2 Reproductive toxicity category 1B Specific Target Organ Toxicity - Repeated exposure category 2
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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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