



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

Tél. (Qc): (418) 660-8666 / 800-890-8666


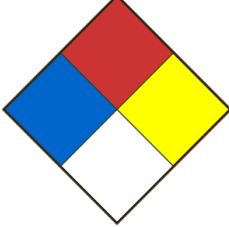
Fax. (Qc): (418) 660-8998

SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier ACETYL CHLORIDE		Product Use Laboratory use	
Chemical formula CH ₃ COCl		Product code AP-0708; AR-0108	Molar weight 78,5
Chemical name / Commercial name / Synonymous ACETYL CHLORIDE, ACETIC CHLORIDE, ACETIC ACID CHLORIDE, ETHANOYL CHLORIDE			
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 7/26/2022	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	<p>Flammable liquids category 2</p> <p>Skin corrosion/irritation - Skin corrosion category 1B</p> <p>Serious eye damage/eye irritation - Serious eye damage category 1</p> <p>Physical hazard not otherwise classified category 1</p> <p>Health hazard not otherwise classified category 1</p>
Signal Word	<p>DANGER</p>
Hazards statements (H)	<p>H225 Highly flammable liquid and vapor.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H318 Causes serious eye damage.</p> <p>LMH005 Other physical hazard not elsewhere classified: Reacts violently on contact with water.</p> <p>LMH003 Causes other adverse health effects that differ from other hazard categories after acute or repeated exposures: Corrosive to the respiratory tract.</p>
Precautionary statements (P)	<p>P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.</p> <p>P233 Keep container tightly closed.</p> <p>P240 Ground/bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical/ventilating/lighting equipment.</p> <p>P242 Use only non-sparking tools.</p> <p>P243 Take precautionary measures against static discharge.</p> <p>P260 Do not breathe dust / fume / gas / mist / vapors / spray.</p> <p>P264 Wash the areas of the body that have been in contact with the product after handling.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.</p> <p>P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a POISON CENTER or doctor/physician.</p> <p>P321 Specific treatment (see section 4 of the SDS and on this label).</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P370 + P378 In case of fire: Use dry powder or dry sand for extinction.</p> <p>P403 + P235 Store in a well-ventilated place. Keep cool.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company.</p> <p>Caution is required.</p>
PICTOGRAMS	
Other dangers	<p>NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Significant; 4=Extreme)</p>
	<p>Health 3</p> <p>Fire 4</p> <p>Reactivity 2</p> <p>Special danger EAU</p>

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Chlorure d'acétyle	75-36-5	<=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	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: Eye damage. Skin lesions. Chemical burns of the skin. Causes burns, regardless of exposure routes. The corrosive effect will outweigh the toxicity for the concentrated product. 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	Dry powder or dry sand.
Unsuitable extinguishing media	Do not use water.
Hazardous combustion products	Hazardous combustion products formed under fire conditions: Carbon monoxide (CO) Carbon dioxide (CO ₂) Hydrogen chloride gas. Phosgene (carbonyl dichloride)
Special fire and explosion hazards	Decomposes violently on contact with water and releases an acid gas which on contact with metal surfaces can generate hydrogen; a potentially flammable and explosive gas. Steam can travel a great distance and ignite on sources of ignition such as heaters, electrical appliances, cigarettes, sparks, etc. Closed containers exposed to fire can explode. Vapors may form flammable or explosive mixtures with air. Risks of explosion by spontaneous chemical reaction with dimethyl sulfoxide or ethanol. 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 / Personal precautions, protective equipment	Evacuate personnel to safe areas. Cut off all sources of ignition. Avoid the accumulation of charges electrostatic. Cover the residues with sodium carbonate or calcium oxide to neutralize the product. Do not use cellulose-based absorbent. Do NOT rinse with water. Ensure a good ventilation of the premises. When handling, wear appropriate safety equipment. Use a respirator as needed. 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 cool, dry place. Keep container tightly closed and store away from heat, air, moisture and incompatible products. Use venting and electrical equipment that is grounded and does not produce ignition sources (sparks). Protect from the sun's rays.
Methods of handling	Bottle in the glass only. Ensure good ventilation. Avoid contact with the skin, eyes and clothes. Avoid ingestion and inhalation. Avoid contact with water. Keep away from sources of ignition - No smoking. Ground fixed equipment and containers used for decanting and equipment to prevent the accumulation of static electricity. 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	CAS-No.	Control parameters	Value	
ACETYL CHLORIDE	75-36-5	TLV, TWA, STEL	No data available	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		TLV, TWA, STEL	No data available	Canada. British Columbia OEL
		TLV, TWA, STEL	No data available	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants

Ventilation	Use 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	Faceshield (8-inch minimum).
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	Odeur piquante, âcre, nauséabonde.
Odour threshold	1.00ppm
pH	Donnée non-disponible.
Melting point / Freezing point	-112°C
Initial boiling point	52°C
Boiling range	Data not available
Flash point	4°C
Evaporation rate	2.3 (Éther=1)%
Flammability	Yes
Lower flammable / Explosive limit	7.3% v/v
Upper flammable / Explosive limit	19% v/v
Vapour pressure	320 hPa à 20 °C.
Vapour density	2.70 (air=1)-
Relative density	1.104g/ml à 25°C
Solubility	Décomposé par l'eau et l'alcool. Miscible avec le benzène, le chloroforme et l'éther.
Partition coefficient water/n-octanol	Data not available
Auto-ignition temperature	390°C
Decomposition temperature	Data not available
Viscosity	Data not available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Material may react violently with water. Flammable product, may ignite with source of ignition, if temperature above flash point. May react violently with incompatible substances.
Chemical stability	Reacts with water.
Possibility of hazardous reactions	Reacts violently with water. May react violently with incompatible substances. Highly flammable liquid and vapors.
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	Heat, water and humidity. Avoid the accumulation of static electricity. Heat, flames and sparks.
Incompatible material	Strong oxidizing agents (nitric acid, perchloric acid, peroxides, chlorates and perchlorates), strong bases, water, alcohols, amines, dimethyl sulfoxide, phosphorus trichloride, heat and humidity .
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. Toxic vapors of hydrogen chloride, carbon monoxide, dioxide and carbon oxychloride (phosgene).

SECTION 11 - TOXICOLOGICAL INFORMATION

ACETYL CHLORIDE

Routes of exposure	Ingestion and inhalation. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Acute exposition effects / symptoms:	The corrosive effect will outweigh the toxicity for the concentrated product. By exposure route below.
- Eyes	Irritation and severe burns that can lead to corneal ulceration and blindness. To our knowledge, the product has not been fully studied.
- Skin	Severe irritation, burns and tissue ulcerations. To our knowledge, the product has not been fully studied.
- 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. To our knowledge, the product has not been fully studied.
Acute toxicity (Ingestion)	Irritation and burning of the mouth, throat, esophagus and abdominal wall. Dysphagie, crampes, diarrhées, méléna, hématomèse, sudation, salivation, tremblements, stupeur, convulsions, collapsus respiratoire, perte de conscience, coma et peut entraîner la mort. To our knowledge, the product has not been fully studied.
Chronic exposure effects / symptoms	Burning sensation, nerve disorders, eye and lung damage, chest pain, cough, dyspnoea, laryngitis, headache, dizziness, tearing, choking, salivation, sweating, tremors, pallor, tachycardia, muscle weakness, loss of weight and loss of appetite, convulsions, nausea and vomiting. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
DL50 (specify species and route of entry)	LD50 Oral - Rat - 910 mg/kg. LD50 Dermal - Data not available.
CL50 (specify species and route of entry)	LC50 - Inhalation - Data not available.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	Toxicity to freshwater fish: Static test LC50 - Pimephales promelas (fathead minnow) - 25.2 - 70 mg/L, 96h.
Persistence and degradability	Persistence is unlikely based on information available.
Bioaccumulative potential	Accumulation is not expected.
Mobility in soil	Is not likely mobile in soil due its low water solubility.
Other adverse effects	Harmful to aquatic life. 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	1717
UN Proper shipping name	CHLORURE D'ACÉTYLE
Transport hazard class(es)	3 Flammable liquids 8 Corrosive substances
Packing group	II
Limited quantity index	1L
ERAP Index	3000
Special precautions	-

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Flammable liquids category 2 Skin corrosion/irritation - Skin corrosion category 1B Serious eye damage/eye irritation - Serious eye damage category 1 Physical hazard not otherwise classified category 1 Health hazard not otherwise classified 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.

Last Update: 7/26/2022