



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

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


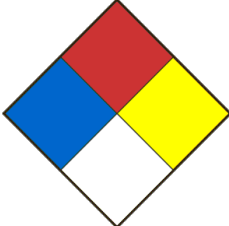
Fax. (Qc): (418) 660-8998

## SAFETY DATA SHEET

### SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier ACETYL CHLORIDE		Product Use Laboratory use	
Chemical formula CH <sub>3</sub> 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

<b>Classification WHIMS / GHS</b>	<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>
<b>Signal Word</b>	<p>DANGER</p>
<b>Hazards statements (H)</b>	<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>
<b>Precautionary statements (P)</b>	<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>
<b>PICTOGRAMS</b>	
<b>Other dangers</b>	<p>NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Significant; 4=Extreme)</p>
	<p><b>Health</b> 3</p> <p><b>Fire</b> 4</p> <p><b>Reactivity</b> 2</p> <p><b>Special danger</b> 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

<b>Eye contact</b>	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.
<b>Skin contact</b>	Wash skin with plenty of water for at least 15 minutes. Remove soiled clothing. If irritation persists, seek medical attention.
<b>Inhalation</b>	Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.
<b>Ingestion</b>	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.
<b>Most important symptoms and effects (acute and delayed)</b>	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.
<b>Immediate medical attention and special treatment, if necessary</b>	In case of medical consultation, keep this sheet available.
<b>General advice</b>	Show this safety data sheet to the doctor in attendance.

## SECTION 05 - FIREFIGHTING MEASURES

<b>Flammability</b>	Yes
<b>Ignition conditions</b>	Heat, sparks and open flame.
<b>Suitable extinguishing media</b>	Dry powder or dry sand.
<b>Unsuitable extinguishing media</b>	Do not use water.
<b>Hazardous combustion products</b>	Hazardous combustion products formed under fire conditions: Carbon monoxide (CO) Carbon dioxide (CO <sub>2</sub> ) Hydrogen chloride gas. Phosgene (carbonyl dichloride)
<b>Special fire and explosion hazards</b>	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).
<b>Special protective equipment and precautions for firefighters</b>	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

<b>Methods and materials for containment and cleaning up / Personal precautions, protective equipment</b>	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

<b>Conditions for safe storage</b>	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.
<b>Methods of handling</b>	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

<b>Ventilation</b>	Use fan.
<b>Respiratory</b>	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.
<b>Gloves</b>	Handle with gloves.
<b>Eyes</b>	Faceshield (8-inch minimum).
<b>Shoes</b>	Safety shoes.
<b>Clothing</b>	Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<b>Engineering control</b>	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

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

## SECTION 10 - STABILITY AND REACTIVITY

<b>Reactivity</b>	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.
<b>Chemical stability</b>	Reacts with water.
<b>Possibility of hazardous reactions</b>	Reacts violently with water. May react violently with incompatible substances. Highly flammable liquid and vapors.
<b>Conditions of instability (Including sensitivity to shock / static discharge / vibration)</b>	Heat, water and humidity. Avoid the accumulation of static electricity. Heat, flames and sparks.
<b>Incompatible material</b>	Strong oxidizing agents (nitric acid, perchloric acid, peroxides, chlorates and perchlorates), strong bases, water, alcohols, amines, dimethyl sulfoxide, phosphorus trichloride, heat and humidity .
<b>Hazardous decomposition products</b>	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

<b>Routes of exposure</b>	Ingestion and inhalation. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
<b>Acute exposition effects / symptoms:</b>	The corrosive effect will outweigh the toxicity for the concentrated product. By exposure route below.
<b>- Eyes</b>	Irritation and severe burns that can lead to corneal ulceration and blindness. To our knowledge, the product has not been fully studied.
<b>- Skin</b>	Severe irritation, burns and tissue ulcerations. To our knowledge, the product has not been fully studied.
<b>- Inhalation</b>	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.
<b>Acute toxicity (Ingestion)</b>	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.
<b>Chronic exposure effects / symptoms</b>	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.
<b>DL50 (specify species and route of entry)</b>	LD50 Oral - Rat - 910 mg/kg. LD50 Dermal - Data not available.
<b>CL50 (specify species and route of entry)</b>	LC50 - Inhalation - Data not available.

## SECTION 12 - ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Toxicity to freshwater fish: Static test LC50 - Pimephales promelas (fathead minnow) - 25.2 - 70 mg/L, 96h.
<b>Persistence and degradability</b>	Persistence is unlikely based on information available.
<b>Bioaccumulative potential</b>	Accumulation is not expected.
<b>Mobility in soil</b>	Is not likely mobile in soil due its low water solubility.
<b>Other adverse effects</b>	Harmful to aquatic life. Do not throw residues in the sewer.

## SECTION 13 - DISPOSAL CONSIDERATIONS

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

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