

AERCHEM INC.
320 North Walnut
Bloomington, IN 47408

Telephone: 812.334.9996

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Emergency: 800.424.9300

SECTION 1: PRODUCT IDENTIFICATION

Product Name:

Acetyl Chloride

Synonyms:

Acetic Acid, Chloride; Acetic Chloride

Chemical Family:

Organic acid chloride

SECTION 2: HAZARD INGREDIENTS

Ingredient:

Acetyl Chloride (75-36-5)

Percent:

100

Hazard Data:

Inhalation hazard
Product is corrosive
Product is flammable
See effects of overexposure
Water reactive, see fire and explosion section

SECTION 3: PHYSICAL DATA

Physical Data	Low	High	Units	Comment
Boiling Point		51	°C	@ 1013 MBAR
Solubility in Water				Reacts with water
Ignition Temperature		734	°C	
Specific gravity (Water=1)		1.104	S/ML	
Vapor Pressure		320	MBAR	(20°C)
Freezing Point		-112	°C	
Vapor Density (Air=1)		2.7		
Appearance and Odor:				
Colorless liquid with a pungent odor			D.N.A.: Does not apply	
			N.M.: Not measured	

SECTION 4: FIRE AND EXPLOSION HAZARDS

Flash Point:

40°F (CC)

Flash Point:

5°C DIN 51755

Explosive Limit:

Lower: 7.3%

Upper: 19%

Extinguishing Media:

Use CO2 or dry chemical.
Do not use water or foam.

Special Procedures:

Use self-contained breathing apparatus and full protective clothing.

Unusual Hazards:

Reacts violently with water to form acetic acid and hydrochloric acid.
Emits highly toxic phosgene when heated to decomposition.

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SECTION 5: HEALTH INFORMATION

Signs and Symptoms of Overexposure:

See effects of overexposure.

Primary Route of Exposure:

Inhalation: Yes
Skin Absorption: Yes
Ingestion: No
Skin and Eye Contact: Yes

Effects of Overexposure:

This product is corrosive to eyes, skin and mucous membranes.
When inhaled, this product causes extreme irritation of eyes and respiratory system.

Toxicity:

Highly irritant and corrosive.

Medical Conditions Aggravated:

Any existing skin, eye or respiratory condition.

Carcinogen:

IARC: No
NTP: No
OSHA: No

SECTION 6: OCCUPATIONAL EXPOSURE LIMITS

Text:

Not established

SECTION 7: EMERGENCY AND FIRST AID PROCEDURES

Inhalation:

Remove victim to fresh air.
Administer oxygen if there is difficulty in breathing. Get medical help.

Eye Contact:

Flush thoroughly with water for 15 minutes. Get immediate medical help.

Skin Contact:

Immediately remove contaminated clothing and wash affected body area with soap and water.
Get immediate medical help.

Ingestion:

Get immediate medical help.

Additional Measures:

None found.

SECTION 8: REACTIVITY DATA

Chemical Stability:

Unstable

Hazardous Polymerization:

Will not occur.

Conditions to Avoid:

Reacts violently with water and alcohols.

Causes violent exothermic reaction with water and alcohols.

Hazardous Decomposition Products:

On reaction with water, generates acetic acid and hydrochloric acid.

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SECTION 9: SPILL OR LEAK PROCEDURES/WASTE DISPOSAL

Spill or Leak Procedures:

Remove all sparking devices or ignition sources.

Neutralize with sodium bicarbonate, soda ash or lime.

Carefully collect into suitable container.

Waste Disposal:

Dispose of or incinerate in accordance with regulations.

SECTION 10: EMPLOYEE PROTECTION

Respiratory Protection:

Use self-contained breathing apparatus when exposed to vapors.

Chemical cartridge respirator recommended<

Protective Clothing:

Rubber gloves

Safety goggles or full face shield.

Clothing suitable to prevent skin contact.

Additional Protective Measures:

Use mechanical ventilation.

SECTION 11: SPECIAL PRECAUTIONS

Store in cool dry place. Keep tightly sealed.

Observe all necessary precautions for handling flammable liquids.

SECTION 12: OTHER REGULATORY CONTROLS

Other Regulatory Controls:

This product is listed on the TSCA inventory.

This product has been reviewed for SARA Title III.

OSHA Physical Hazards:

Corrosive

Flammable

Water Reactive

Hazard Communication Label:

28.1

SARA Hazard Class:

Acute:	Yes	
Chronic:		No
Fire Hazard:	Yes	
Pressure:	No	
Reactivity:	Yes	