

## Chemical Safety Data Sheet MSDS / SDS

## FLUOROACETYL CHLORIDE

Revision Date:2026-05-31 Revision Number:1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

## Product identifier

Product name : FLUOROACETYL CHLORIDE  
CBnumber : CB9777536  
CAS : 359-06-8  
EINECS Number : 206-623-6  
Synonyms : 2-fluoroacetyl chloride,fluoroacetyl chloride

## Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.  
Uses advised against : none

## Company Identification

Company : Chemicalbook  
Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing  
Telephone : 010-86108875

## SECTION 2: Hazards identification

## GHS Label elements, including precautionary statements

Symbol(GHS)



Signal word

Danger

## Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P232 Protect from moisture.

## Hazard statements

H314 Causes severe skin burns and eye damage

## SECTION 3: Composition/information on ingredients

## Substance

|              |                                                 |
|--------------|-------------------------------------------------|
| Product name | : FLUOROACETYL CHLORIDE                         |
| Synonyms     | : 2-fluoroacetyl chloride,fluoroacetyl chloride |
| CAS          | : 359-06-8                                      |
| EC number    | : 206-623-6                                     |
| MF           | : C <sub>2</sub> H <sub>2</sub> ClFO            |
| MW           | : 96.49                                         |

## SECTION 4: First aid measures

### First Aid Measures

#### General advice

Immediate medical attention is required. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

| General advice | Immediate medical                                                                                                                                                  | attention is required                                                                                                                                            | d. In case of accident or | unwellness, seek |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------|
|                | advice immediately                                                                                                                                                 | (show directions for use or safety data sheet if possible).                                                                                                      |                           |                  |
| Eye contact    | Immediate medical                                                                                                                                                  | attention is required. Rinse immediately with plenty of water, the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. |                           |                  |
| Skin Contact   | Wash off immediately with plenty of water while removing all contaminated clothes and shoes.                                                                       |                                                                                                                                                                  |                           |                  |
| Inhalation     | Remove to fresh air. Call a physician or poison control center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. |                                                                                                                                                                  |                           |                  |
| Immediate      | medical attention is required. Do NOT induce                                                                                                                       |                                                                                                                                                                  |                           |                  |
| Never give     | anything by mouth to an unconscious person.                                                                                                                        |                                                                                                                                                                  |                           |                  |
| Clean mouth    | with water and drink afterwards plenty of water.                                                                                                                   |                                                                                                                                                                  |                           |                  |
| control center | Call immediately.                                                                                                                                                  |                                                                                                                                                                  |                           |                  |
| Remove all     | sources of ignition.                                                                                                                                               |                                                                                                                                                                  |                           |                  |

#### Eye contact

Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.

#### Skin Contact

Wash off immediately with plenty of water. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

#### Inhalation

Remove to fresh air. Call a physician or poison control center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

#### Ingestion

Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water.

Never give anything by mouth to an unconscious person. Remove from exposure, lie down.

Clean mouth with water and drink afterwards plenty of water. Call a physician or poison control center immediately.

#### Self-protection of the first aider

Remove all sources of ignition.

## **Most important symptoms and effects, both acute and delayed**

### **Symptoms**

No information available.

## **Indication of any immediate medical attention and special treatment needed**

### **Note to physicians**

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur.

Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

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## **SECTION 5: Firefighting measures**

### **Suitable Extinguishing Media In case of fire chemical can lead to re explosion do toxic/corrosiv for firefighters (approved or**

Use CO<sub>2</sub>, dry chemical, or foam for extinction. se of irritating and toxic gases and vapors. In the event of fire and/or t breathe fumes. Thermal decomposition can lead to release of ases and vapors. uivalent) and full protective gear.

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## **SECTION 6: Accidental release measures**

### **Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

Evacuate personnel to safe areas. Remove all sources of ignition. Ensure adequate ventilation, especially in confined areas. Keep people away from and upwind of spill/leak.

Use personal protective equipment as required.

#### **Environmental precautions**

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

See Section 12 for additional Ecological Information.

### **Methods and material for containment and cleaning up**

#### **Methods for containment**

Prevent further leakage or spillage if safe to do so.

#### **Methods for cleaning up**

Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Take up mechanically, placing in appropriate containers for disposal. After cleaning, flush away traces with water.

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## **SECTION 7: Handling and storage**

### **Precautions for safe handling**

**Advice on safe handling**

Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems. Noxious vapor/odor. Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

**Conditions for safe storage, including any incompatibilities****Storage Conditions**

Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture.

Store at 4 °C.

**Incompatible materials**

Incompatible with strong acids and bases. Incompatible with oxidizing agents. Bases.

Water. Strong oxidizing agents.

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## SECTION 8: Exposure controls/personal protection

**Control parameters****Exposure Guidelines**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls****Engineering Controls**

Ensure adequate ventilation, especially in confined areas

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Tight sealing safety goggles. Face protection shield.

**Skin and Body Protection**

Wear protective gloves and protective clothing.

**Respiratory protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations**

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Keep away from food, drink and animal feeding stuffs.

Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection.

## SECTION 9: Physical and chemical properties

### Information on basic physicochemical properties

|                              |                          |
|------------------------------|--------------------------|
| Physical State               | liquid                   |
| Appearance                   | No information available |
| Odor                         | No information available |
| pH                           | No information available |
| Melting point/freezing point | -79.47 °C                |
| Boiling point                | 70 °C                    |
| Flash point                  | -16.1 °C                 |
| Density                      | 1.28 g/mL                |
| Evaporation rate             | No information available |
| Upper flammability limits    | No information available |
| Lower flammability limit     | No information available |
| Vapor pressure               | 294.41                   |
| Vapor density                | 1                        |
| Specific gravity             | No information available |
| Water solubility             | No information available |
| Solubility in other solvents | No information available |
| Partition coefficient        | -0.53                    |
| Autoignition temperature     | No information available |
| Decomposition temperature    | No information available |
| Kinematic viscosity          | No information available |
| Explosive properties         | No information available |
| Oxidizing properties         | No information available |

## SECTION 10: Stability and reactivity

### Reactivity

Not applicable

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Hazardous polymerization

No information available.

### Conditions to avoid

Heat, flames and sparks. Exposure to air or moisture over prolonged periods. Keep away from any possible contact with water, because of

violent reaction and possible flash fire.

### **Incompatible materials**

Incompatible with strong acids and bases. Incompatible with oxidizing agents. Bases.

Water. Strong oxidizing agents.

### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Substance will react with water (some violently), releasing corrosive and/or toxic gases and runoff. Hydrogen fluoride. Carbon oxides.

Phosgene.

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## **SECTION 11: Toxicological information**

### **Information on likely routes of exposure**

#### **Inhalation**

Classified based on available data. For more details, see section 2.

#### **Eye contact**

Classified based on available data. For more details, see section 2.

#### **Skin Contact**

Classified based on available data. For more details, see section 2.

#### **Ingestion**

Classified based on available data. For more details, see section 2.

### **Information on toxicological effects**

#### **Symptoms**

Classified based on available data. For more details, see section 2.

### **Delayed and immediate effects as well as chronic effects from short and long-term exposure**

#### **Chronic Toxicity**

Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure. Possible risk of irreversible effects.

### **Numerical measures of toxicity - Product Information**

#### **Unknown acute toxicity**

Classified based on available data. For more details, see section 2

The following values are calculated based on chapter 3.1 of the GHS document

#### **ATEmix (oral)**

500 mg/kg

#### **ATEmix (inhalation-dust/mist)**

1.5 mg/l

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## **SECTION 12: Ecological information**

**Ecotoxicity**

May cause long lasting harmful effects to aquatic life

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility**

No information available.

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## SECTION 13: Disposal considerations

**Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging**

Do not reuse container.

**Other Information**

Waste codes should be assigned by the user based on the application for which the product was used.

**US EPA Waste Number**

D002

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## SECTION 14: Transport information

**DOT****UN/ID no**

UN1760

**Hazard Class**

8

**Packing Group**

II

**Proper shipping name**

Corrosive liquids, n.o.s.

**Description**

UN1760, Corrosive liquids, n.o.s. (Fluoroacetyl chloride), 8, II

**Emergency Response Guide Number**

154

## IMDG

### UN/ID no

UN1760

### Hazard Class

8

### Packing Group

II

### Proper shipping name

Corrosive liquid, n.o.s.

### Description

UN1760, Corrosive liquid, n.o.s. (Fluoroacetyl chloride), 8, II

### Special Provisions

274

### EmS-No

F-A, S-B

## IATA

### UN/ID no

UN1760

### Hazard Class

8

### Packing Group

II

### Proper shipping name

Corrosive liquid, n.o.s.

### Description

UN1760, Corrosive liquid, n.o.s. (Fluoroacetyl chloride), 8, II

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## SECTION 15: Regulatory information

### International Inventories

All of the components in the product are on the following Inventory lists

TSCA (United States): Canada (DSL/NDSL) Europe (EINECS/ELINCS/NLP)

X - Listed

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

| Chemical name | TSCA | DSL | NDSL | EINECS | ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|---------------|------|-----|------|--------|--------|------|-------|------|-------|------|
|---------------|------|-----|------|--------|--------|------|-------|------|-------|------|

|                       |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|
| Fluoroacetyl chloride | X | - | X | X | - | - | - | - | - | - | - |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|

## US Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

#### Acute health hazard

Yes

#### Chronic Health Hazard

Yes

#### Fire hazard

Yes

#### Sudden release of pressure hazard

No

#### Reactive hazard

Yes

### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## US State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

| Chemical Name                  | New Jersey | Massachusetts | Pennsylvania |
|--------------------------------|------------|---------------|--------------|
| Fluoroacetyl chloride 359-06-8 | X          | X             | X            |

## SECTION 16: Other information

### Abbreviations and acronyms

CAS: Chemical Abstracts Service

TWA: Time-Weighted Average

STEL: Short-Term Exposure Limit

LD50: Lethal Dose 50%

LC50: Lethal Concentration 50%

EC50: Effective Concentration 50%

PEL: Permissible Exposure Limit

TLV: Threshold Limit Value

IMDG: International Maritime Dangerous Goods Code

IATA: International Air Transport Association

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

DOT: US Department of Transportation

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

**Disclaimer:**

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.