

# SAFETY DATA SHEET

Revision Date 24-Dec-2021 Revision Number 4

# 1. Identification

Product Name Dichloroacetyl chloride

Cat No.: AC113080000; AC113080050; AC113081000; AC113085000

**CAS No** 79-36-7

Synonyms Dichloracetyl Chloride; Dichloroethanoyl Chloride.

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

#### Details of the supplier of the safety data sheet

Company

Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410
Fair Lawn, NJ 07410

Tel: (201) 796-7100

Emergency Telephone Number For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11

Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

# 2. Hazard(s) identification

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids
Category 4
Acute dermal toxicity
Category 3
Skin Corrosion/Irritation
Category 1
Serious Eye Damage/Eye Irritation
Category 1
Specific target organ toxicity (single exposure)
Category 3

Target Organs - Respiratory system.

#### Label Elements

## Signal Word

Danger

#### **Hazard Statements**

Combustible liquid
Toxic in contact with skin

Causes severe skin burns and eye damage May cause respiratory irritation



#### **Precautionary Statements**

#### Prevention

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

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep cool

#### Response

Immediately call a POISON CENTER or doctor/physician

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

#### Skin

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

#### **Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing **Ingestion** 

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

#### Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### Disposal

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC)

Very toxic to aquatic life

# 3. Composition/Information on Ingredients

Component	CAS No	Weight %	
Dichloroacetyl chloride	79-36-7	97	

# 4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Get medical attention.

**Inhalation** If not breathing, give artificial respiration. Get medical attention.

**Ingestion** Call a physician immediately. Clean mouth with water.

Most important symptoms and

effects

Difficulty in breathing. Causes burns by all exposure routes. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe

damage to the delicate tissue and danger of perforation

Notes to Physician

Treat symptomatically

# 5. Fire-fighting measures

Suitable Extinguishing Media Carbon dioxide (CO<sub>2</sub>). Dry chemical. Chemical foam. Water mist may be used to cool

closed containers.

Unsuitable Extinguishing Media No information available

Flash Point 66 °C / 150.8 °F

Method - No information available

Autoignition Temperature 585 °C / 1085 °F

**Explosion Limits** 

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

#### Specific Hazards Arising from the Chemical

Combustible material. Containers may explode when heated. Do not allow run-off from fire-fighting to enter drains or water courses.

#### **Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO2). Phosgene. Hydrogen chloride gas.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
3	2	0	N/A

#### 6. Accidental release measures

Personal Precautions
Environmental Precautions

Remove all sources of ignition. Take precautionary measures against static discharges. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

**Methods for Containment and Clean** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, **Up** sawdust). Keep in suitable, closed containers for disposal. Remove all sources of ignition.

	7. Handling and storage
Handling	Do not breathe mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Handle product only in closed system or provide appropriate exhaust ventilation. Keep away from open flames, hot surfaces and sources of ignition.

**Storage.** Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat, sparks and flame. Corrosives area. Keep containers tightly closed in a dry, cool

and well-ventilated place. Incompatible Materials. Water. Strong bases. Alcohols.

### 8. Exposure controls / personal protection

**Exposure Guidelines** 

This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

Ensure that evewash stations and safety showers are close to the workstation location. **Engineering Measures** 

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

**Eye/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

FN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard **Respiratory Protection** 

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures** 

# 9. Physical and chemical properties

**Physical State** Liquid **Appearance** Light vellow Odor pungent

No information available **Odor Threshold** No information available Hq

Melting Point/Range No data available

**Boiling Point/Range** 107 - 108 °C / 224.6 - 226.4 °F @ 760 mmHg

66 °C / 150.8 °F **Flash Point Evaporation Rate** No information available Not applicable Flammability (solid,gas)

Flammability or explosive limits

Upper

No data available Lower No data available **Vapor Pressure** 30.6 hPa @ 20 °C Vapor Density 5.1

**Specific Gravity** 1.530

Solubility No information available Partition coefficient; n-octanol/water No data available 585 °C / 1085 °F **Autoignition Temperature Decomposition Temperature** No information available **Viscosity** No information available

**Molecular Formula** C2 H Cl3 O **Molecular Weight** 147.39

# 10. Stability and reactivity

**Reactive Hazard** None known, based on information available

Stability Moisture sensitive.

Exposure to moist air or water. Keep away from open flames, hot surfaces and sources of **Conditions to Avoid** 

ignition.

Water, Strong bases, Alcohols **Incompatible Materials** 

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Phosgene, Hydrogen chloride gas

No information available. **Hazardous Polymerization** 

**Hazardous Reactions** None under normal processing.

# 11. Toxicological information

**Acute Toxicity** 

**Product Information** Component Information No acute toxicity information is available for this product

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Component	LD50 Oral	LD50 Dermal	LC50 Inhalation		
Dichloroacetyl chloride	LD50 = 2460 mg/kg (Rat)	LD50 = 995 mg/kg ( Rabbit )	Not listed		

**Toxicologically Synergistic** 

**Products** 

No information available

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

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Dichloroacetyl chloride	79-36-7	Not listed				

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

STOT - single exposure Respiratory system

None known STOT - repeated exposure

No information available **Aspiration hazard** 

delayed

Symptoms / effects,both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

> Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

**Endocrine Disruptor Information** No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

# 12. Ecological information

**Ecotoxicity** 

Very toxic to aquatic organisms. The product contains following substances which are hazardous for the environment.

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** No information available.

**Mobility** Will likely be mobile in the environment due to its water solubility.

# 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# 14. Transport information

DOT

**UN-No** UN1765

Proper Shipping Name DICHLOROACETYL CHLORIDE

Hazard Class 8
Packing Group ||

TDG

**UN-No** UN1765

Proper Shipping Name DICHLOROACETYL CHLORIDE

Hazard Class 8
Packing Group ||

**IATA** 

UN-No UN1765

Proper Shipping Name DICHLOROACETYL CHLORIDE

Hazard Class 8
Packing Group ||

IMDG/IMO

**UN-No** UN1765

Proper Shipping Name DICHLOROACETYL CHLORIDE

Hazard Class 8
Packing Group |

# 15. Regulatory information

#### United States of America Inventory

Component	CAS No TSCA		TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags	
Dichloroacetyl chloride	79-36-7	X	ACTIVE	-	

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

### **International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Dichloroacetyl chloride	79-36-7	Х	-	201-199-9	Х	Х	Х	Х	Х	KE-10056

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

## U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

**CWA (Clean Water Act)** 

#### Dichloroacetyl chloride

Clean Air Act Not applicable

**OSHA** - Occupational Safety and

Health Administration

Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know

Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Dichloroacetyl chloride	X	X	X	-	-

#### **U.S. Department of Transportation**

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

#### Authorisation/Restrictions according to EU REACH

Component	,	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances		
Dichloroacetyl chloride	-	Use restricted. See item 75. (see link for restriction details)	-	

https://echa.europa.eu/substances-restricted-under-reach

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Dichloroacetyl chloride	79-36-7	Listed	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive	Seveso III Directive	Rotterdam	Basel Convention

	Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
I	Dichloroacetyl chloride	79-36-7	Not applicable	Not applicable	Not applicable	Not applicable

# 16. Other information

Prepared By Regulatory Affairs

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#### **Revision Summary**

This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS**