FTF SCIENTIFIC

SAFETY DATA SHEET

Section 1: Identification

Product Name: Oxalyl Chloride
Chemical Name/Synonyms: Ethanedioyl dichloride
CAS No: 79-37-8
Product Use: Intended for research and development
Product Restrictions: Not intended for food, drug, cosmetic, pesticide, or medical device
Company:
FTF Scientific LLC
9601 North Palafox Street, Suite 12
Pensacola, Fl 32534

In emergency call 911.
For information about this SDS, use this contact phone#: 720-621-7160

Section 2: Hazard(s) Identification

Hazard Classification:
Flammable liquids (Category 2), H225
Chemicals which, in contact with water, emit flammable gases (Category 1), H260
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 3), H331
Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318

Signal Word(s):
Danger

Hazard Statements:
In contact with water releases flammable gases which may ignite spontaneously
Causes severe skin burns and eye damage
Toxic if swallowed or if inhaled

Pictograms:



Precautionary Statements:
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection
Keep away from any possible contact with water, because of violent reaction and possible flash fire
Handle under inert gas. Protect from moisture. Wear respiratory protection
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. Immediately call a POISON CENTER or doctor/physician
Skin: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Brush off loose particles from skin. Immerse in cool water/wrap with wet bandages
Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Ingestion: 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. Store in a dry place. Store in a closed container
Disposal: Dispose of contents/container to an approved waste disposal plant

Section 3: Composition/ Information on Ingredients

Chemical Name	Synonym	CAS#	Conc.
Oxalyl Chloride	Ethanedioyl dichloride	79-37-8	>99%

Section 4: First-Aid Measures

After skin contact: Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.
After eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
After inhalation: If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Remove to fresh air. Immediate medical attention is required.
After swallowing: Do NOT induce vomiting. Call a physician or poison control center immediately.

Section 5: Fire-Fighting Measures

Suitable extinguishing agents: CO 2, dry chemical, dry sand, alcohol-resistant foam
Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

Section 6: Accidental Release Measures

Personal precautions: Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
Measures for environmental protection: Should not be released into the environment.
Measures for cleaning/collecting: Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Do not expose spill to water.

Section 7: Handling and Storage

Handling: Do not get in eyes, on skin, or on clothing. Wear personal protective equipment/face protection. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Do not allow contact with water.
Storage: Keep under nitrogen. Keep refrigerated. Corrosives area. Keep away from water or moist air. Keep container tightly closed in a dry and well-ventilated place. Incompatible Materials. Bases. Water. Alcohols. Amines. Metals. Oxidizing agent.

Section 8: Exposure Controls/Personal Protection

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH	Mexico OEL (TWA)
Oxalyl Chloride	na	na	na	na

General protective and hygienic measures: Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
Breathing equipment: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard 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.
Protection of hands: Wear appropriate protective gloves and clothing to prevent skin exposure.
Eye 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 EN166.

Section 9: Physical and Chemical Properties

Form: Light yellow liquid
Odor: pungent
Odor threshold: na
pH: na
Melting point/melting range: -12 °C
Boiling point/boiling range: 63-64 °C
Flash point: >100 °C
Evaporation rate: na
Flammability: na
Upper/lower flammability or explosive limits: na
Auto ignition temperature: na
Danger of explosion: na
Vapor pressure: 232 hPa at 19 °C
Vapor density: 4.4
Relative density: na
Solubility in/Miscibility with water: Reacts violently with water

Section 10: Stability and Reactivity

Reactivity: Yes
Chemical stability: Reacts violently with water, liberating extremely flammable gases. Contact with water liberates toxic gas. Light sensitive.
Conditions to avoid: Exposure to light. Incompatible products. Exposure to moist air or water. Exposure to moisture.
Incompatible materials: Bases, Water, Alcohols, Amines, Metals, Oxidizing agent
Hazardous decomposition products: Carbon monoxide (CO), Carbon dioxide (CO2), Phosgene, Hydrogen chloride gas

Section 11: Toxicological Information

Acute toxicity: No information available.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Oxalyl Chloride	na	na	LC50 = 1850 ppm (Rat) 1 h

Potential routes of exposure/potential health effects

Skin: Irritating to skin
Eye: Irritating to eyes
Inhalation: Irritating to respiratory system
Ingestion: Causes severe swelling, severe damage to the delicate tissue and danger of perforation
Carcinogenic effects: NA
Mutagenic effects: NA
Reproductive toxicity: NA
Sensitization: NA
Target organs: NA

Section 12: Ecological Information (non-mandatory)

Ecotoxicity: Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Do not empty into drains. Reacts with water so no ecotoxicity data for the substance is available.
Mobility: Will likely be mobile in the environment due to its volatility.
Biodegradation: NA
Bioaccumulation: NA

Section 13: Disposal Considerations (non-mandatory)

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.

Section 14: Transport Information (non-mandatory)

DOT regulations:

- **UN Number:** 2922
- **Hazard Class:** 8
- **Subsidiary Hazard Class:** 6.1
- **Packing Group:** II
- **Proper Shipping Name:** Water-reactive liquid, toxic, n.o.s. (oxalyl chloride)
- **Limited Quantities:** 1000 ML

IMDG:

- **UN Number:** 2922
- **Hazard Class:** 8

- **Subsidiary Hazard Class:** 6.1
- **Packing Group:** II
- **Proper Shipping Name:** Water-reactive liquid, toxic, n.o.s. (oxalyl chloride)
- **EMS-NO:** F-G, S-N

IATA:

- **UN Number:** 2922
- **Hazard Class:** 8
- **Subsidiary Hazard Class:** 6.1
- **Packing Group:** II
- **Proper Shipping Name:** Water-reactive liquid, toxic, n.o.s. (oxalyl chloride)

Section 15: Regulatory Information (non-mandatory)

US Federal Regulations
SARA Section 355 (extremely hazardous substances): NA
SARA Section 313 (specific toxic chemical listings): NA
Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs): NA
TSCA (Toxic Substances Control Act): Active

Section 16: Other Information

The above information is as accurate as can be provided however this does not represent the full guarantee of the properties of the product. FTF Scientific LLC shall not be held liable for any damage resulting from handling or contact of the above product.

SDS date of preparation/update: October 19, 2026