Section 1. Product and Company Identification

Product Name Oxalyl Chloride
CAS Number 79-37-8

Parchem - fine & specialty chemicals
415 Huguenot Street
New Rochelle, NY 10801
(914) 654-6800 **(914) 654-6899**
parchem.com **info@parchem.com**

EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture
GHS-US Classification
Acute toxicity, Oral (Category 4), H302
Skin corrosion (Category 1A), H314
Serious eye damage (Category 1), H318
Acute toxicity, Inhalation (Category 2), H330
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

GHS Label Elements
Pictograms:

Signal word: DANGER

Hazard and precautionary statements
Hazard Statements
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H330 Fatal if inhaled. H335 May cause respiratory irritation.

Precautionary Statements
P202: Do not handle until all safety precautions have been read and understood.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P262: Do not get in eyes, on skin, or on clothing.
P264: Wash hands and other exposed area thoroughly after handling.
P301 + P330 + P331+ P312: IF SWALLOWED Rinse mouth. Do NOT induce vomiting. Call a

POISON CENTER/ doctor/ medical personnel if you feel unwell.
P303 + P361 + P351 + P333 + P313: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse cautiously with water for several minutes. If skin irritation or rash occurs: Get medical advice/attention.
P304 + P340 + P342 + P311: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P305 + P351 + P338 + P337 + P313: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
P363: Wash contaminated clothing before reuse.
P390: Absorb spillage to prevent material damage.
P405: Store locked up.
P406: Store in corrosive resistant stainless steel container with a resistant inner liner.
P501: Dispose of contents/ container to an approved waste disposal plant in accordance with federal, state and local environmental control regulations

Section 3. Composition / Information on Ingredients

Common Name Oxalyl Chloride
Synonym(s) Ethanedioyl dichloride; Ethanedioyl chloride; Oxalic acid dichloride; Oxalic dichloride
Formula $C_2Cl_2O_2$
CAS Number 79-37-8

COMPONENT	CAS NUMBER	CONCENTRATION
Oxalyl Chloride	79-37-8	≥ 99%

Section 4. First Aid Measures

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical attention if irritation occurs.
Skin Contact: Remove any contaminated clothing. Wipe off excess from skin. Wash skin with soap and flush with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.
Inhalation: If inhaled, remove to fresh air immediately and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention for any breathing difficulty.
Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Section 5. Firefighting Measures

Special Hazards Arising from the Substance or Mixture: Carbon oxides, Hydrogen chloride gas
Firefighting Equipment/Instructions: Evacuate personnel to a safe area. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Extinguishing Media: Suitable extinguishing media such as dry chemical or carbon dioxide. Do not use water.

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Use proper personal protective equipment as indicated in Section 8. Keep unnecessary personnel away to safe areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation.
Methods and materials for containment and cleaning up: Handle in accordance with industrial hygiene and safety practices. DO NOT use water. Absorb spill with inert material such as vermiculite, sand, soda ash, or lime and then place in suitable container. Keep in suitable, closed containers for disposal according to local and regional authority requirements.
Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 7. Handling and Storage

Personal Precautions: Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Do not swallow. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Wash hands and other exposed areas with mild soap and water after handling. Handle in accordance with good industrial hygiene and safety procedures.
Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep container dry. Keep away from heat. Keep away from sources of ignition. Keep away from combustible material. Never allow product to get in contact with water during storage.

Section 8. Exposure Controls / Personal Protection

Exposure Limit: No Data available
Engineering Controls: Use adequate ventilation or other engineering controls to keep airborne concentrations below recommended exposure limits. See **OSHA Regulations state in 29 CFR 1910.151(c)** for an eyewash facility and safety shower requirement.

Personal Protective Equipment
Eyes: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9. Physical and Chemical Properties

Appearance: Colorless or light yellow liquid
Assay: ≥ 99%
Melting Point: 12°C
Boiling Point: 63 - 64°C
Phosphorus Trichloride: ≤ 0.3%
Phosphorus Oxychloride: ≤ 0.7%
Specific Gravity: 1.475 - 1.485
Solubility in Water: Reacts (soluble in ether, benzene, chloroform)
Flash Point: > 100°C
Odor: No data available
pH: No data available
Auto-ignition temperature: No data available
Viscosity: No data available
Explosive properties: No data available
Explosion Limits, Lower: Not data available
Explosion Limits, Upper: Not data available
Oxidizing properties: No data available
Auto-ignition Temperature: Not data available
Flammability of the Product: Not data available
Flammable Limits: Not data available

Section 10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.
Conditions to avoid: Moisture
Incompatibilities with other materials: Strong bases, water, potassium, sodium, alkali metals, alcohols, strong oxidizing agents.
Hazardous decomposition products: Chlorine, Hydrogen chloride, Carbon monoxide, Carbon dioxide.
Hazardous polymerization: Will not occur.
Reactivity: Reacts violently with water. Contact with water liberates toxic gas

Section 11. Toxicological Information

Acute toxicity
LC50 Inhalation - Rat: 1840 ppm (1h)

Carcinogenicity: The components of this product are not listed as carcinogen by ACGIH, IARC, NIOSH, NTP, or OSHA.
Special Remarks on Toxicity to Animals: No data available
Special Remarks on Chronic Effects on Humans: No data available
Special Remarks on other Toxic Effects on Humans: No data available

Section 12. Ecological Information

No data available

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

US DOT
UN/NA: 2922
Proper Shipping Name: Corrosive Liquids, Toxic, N.O.S. (Oxalyl Choride)
Hazard Class: 8 (6.1)
Packing Group: I

IMDG/IATA
UN/NA: 2922
Proper Shipping Name: Corrosive Liquid, Toxic, N.O.S. (Oxalyl Choride)
Hazard Class: 8 (6.1)
Packing Group: I

Section 15. Regulatory Information

SARA 302
Reportable under SARA Title III, Section 302:

Phosgene	CAS-No. 75-44-5	Revision Date: 2007-07-01
Trichloroacetyl chloride	CAS-No. 76-02-8	Revision Date: 2007-07-01

CERCLA/SARA Section 313: No chemicals are reportable under Section 313.
SARA 311/312 Hazards: Acute Health Hazard

US State
State Right to Know: This chemical is listed on the following state right to know lists: Massachusetts, New Jersey, Pennsylvania.

California Regulations
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):
This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

HMIS Rating
Health: 3
Flammability: 1
Reactivity: 0
Personal Protection:

NFPA Rating
Health: 3
Flammability: 1
Reactivity: 0
Special Hazards:

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. 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. It does not represent any guarantee of the properties of the product.

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