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SETIQ:	01-800-002-1400
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OXALYL CHLORIDE

1. Product Identification

Synonyms: Ethandioyl Chloride

CAS No.: 79-37-8

Molecular Weight: 126.93

Chemical Formula: ClCOCOCl

Product Codes: O0018

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Ethanedioyl Dichloride	79-37-8	90 - 100%	Yes

3. Hazards Identification

Emergency Overview

POISON! DANGER! CAUSES SEVERE BURNS. MAY BE FATAL IF SWALLOWED OR INHALED. CONTACT WITH WATER OR MOIST AIR LIBERATES TOXIC AND CORROSIVE FUMES. TARGET ORGAN(S): Eyes, skin, mucous membranes.

Health Rating: 4 - Extreme (Poison)

Flammability Rating: 1 - Slight

Reactivity Rating: 3 - Severe (Water Reactive)

Contact Rating: 4 - Extreme (Corrosive)

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES

Storage Color Code: White Stripe (Store Separately)

Potential Health Effects

Inhalation:

Is harmful and may be fatal. irritation of mucous membranes, severe irritation of respiratory system, may cause pulmonary edema.

Ingestion:

Is harmful and may be fatal. severe burns to mouth, throat, and stomach.

Skin Contact:

Irritation, burns.

Eye Contact:

Irritation, burns.

Chronic Exposure:

No information found.

Aggravation of Pre-existing Conditions:

No information found.

4. First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Prompt action is essential.

Ingestion:

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before re-use.

Eye Contact:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

5. Fire Fighting Measures

Fire:

Not expected to be a fire hazard.

Explosion:

Reacts violently with water producing highly toxic fumes. Closed containers exposed to heat may explode. Reacts violently with explosion when mixed with sodium-potassium alloy.

Fire Extinguishing Media:

Use dry chemical or carbon dioxide. Do not use water.

Special Information:

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

6. Accidental Release Measures

Wear self-contained breathing apparatus and full protective clothing. Stop leak if you can do so without risk. DO NOT use water. Neutralize spill and/or washings with soda ash or lime. With clean shovel, place material into clean, dry container and cover. Move container(s) from spill area.

7. Handling and Storage

Keep container tightly closed. Store away from water or locations where water may be used to extinguish fire. Isolate from incompatible materials. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

None established.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to the substance is apparent and engineering controls are not feasible, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

Colorless to yellow liquid.

Odor:
Pungent odor.
Solubility:
Decomposes
Specific Gravity:
1.45
pH:
No information found.
% Volatiles by volume @ 21C (70F):
100
Boiling Point:
63C (145F)
Melting Point:
-10C (14F)
Vapor Density (Air=1):
4.4
Vapor Pressure (mm Hg):
Not applicable.
Evaporation Rate (BuAc=1):
No information found.

10. Stability and Reactivity

Stability:
Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products:
Chlorine, hydrogen chloride, carbon monoxide, carbon dioxide.
Hazardous Polymerization:
Will not occur.
Incompatibilities:
Strong bases, water, potassium, sodium, alkali metals, alcohols, strong oxidizing agents.
Conditions to Avoid:
Moisture.

11. Toxicological Information

Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Ethanedioyl Dichloride (79-37-8)	No	No	None

12. Ecological Information

Environmental Fate:
No information found.
Environmental Toxicity:
No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: CORROSIVE LIQUID, TOXIC, N.O.S. (OXALYL CHLORIDE)
Hazard Class: 8, 6.1
UN/NA: UN2922
Packing Group: II

Information reported for product/size: 25G

International (Water, I.M.O.)

Proper Shipping Name: CORROSIVE LIQUID, TOXIC, N.O.S. (OXALYL CHLORIDE)
Hazard Class: 8, 6.1
UN/NA: UN2922
Packing Group: II
Information reported for product/size: 25G

International (Air, I.C.A.O.)

Proper Shipping Name: CORROSIVE LIQUID, TOXIC, N.O.S. (OXALYL CHLORIDE)
Hazard Class: 8, 6.1
UN/NA: UN2922
Packing Group: II
Information reported for product/size: 25G

15. Regulatory Information

Table with 5 columns: Ingredient, TSCA, EC, Japan, Australia. Row: Ethanedioyl Dichloride (79-37-8) with Yes/Yes/Yes/Yes.

Table with 5 columns: Ingredient, Korea, --Canada-- (DSL, NDSL), Phil. Row: Ethanedioyl Dichloride (79-37-8) with Yes/Yes/No/Yes.

Table with 5 columns: Ingredient, -SARA 302- (RQ, TPQ), -SARA 313- (List, Chemical Catg.). Row: Ethanedioyl Dichloride (79-37-8) with No/No/No/No.

Table with 4 columns: Ingredient, CERCLA, -RCRA- (261.33), -TSCA- (8(d)). Row: Ethanedioyl Dichloride (79-37-8) with No/No/No.

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No
Reactivity: No (Pure / Liquid)

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 3 Flammability: 0 Reactivity: 1

Label Hazard Warning:

POISON! DANGER! CAUSES SEVERE BURNS. MAY BE FATAL IF SWALLOWED OR INHALED. CONTACT WITH WATER OR MOIST AIR LIBERATES TOXIC AND CORROSIVE FUMES. TARGET ORGAN(S): Eyes, skin, mucous membranes.

Label Precautions:

Do not get in eyes, on skin, on clothing. Do not breathe vapor. Keep in tightly closed container. Use with adequate ventilation. Wash thoroughly after handling. Do not add water to contents while in container because of violent reaction. In case of spill, soak up with dry sand or earth. Do NOT use water.

Label First Aid:

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Prompt action is essential. In case of contact, wipe off excess material from skin then immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Product Use:

Laboratory Reagent.
Revision Information:
Jan. 2008.

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