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## SECTION 01 : IDENTIFICATION OF SUBSTANCE AND OF THE COMPANY /UNDERTAKING

### 1.1 Product identifiers

Product name : OXALYL CHLORIDE (Ethanedioyl dichloride)  
 Product Number : --  
 Company/Brand : ANSHUL  
 REACH No : 01-2119955690-32-0001  
 CAS-No. : 79-37-8

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

Identified uses : Laboratory chemicals, Manufacture of substances

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

Company : Anshul Specialty Molecules Pvt.Ltd.  
 Flexcel Park ,C-wing ,2<sup>nd</sup> Floor,S.V.Road,  
 Near 24 Karat Multiplex, Jogeshwari (West)  
 Mumbai-400 102 ,INDIA

### 1.4 Emergency telephone number

Emergency Phone # : +91 98194 90645  
 +91 88797 10202

## SECTION 02 : HAZARD IDENTIFICATION

**2.1 Classification of the substance or mixture** : Classification according to Regulation (EC) No 1272/2008  
 Acute toxicity, Inhalation (Category 3), H331  
 Skin corrosion (Category 1B), H314  
 Specific target organ toxicity - single exposure (Category 3),  
 Respiratory system, H335

### 2.2 Label elements

**Labeling according Regulation (EC) No 1272/2008**

**Pictogram** :




GHS05

GHS06

**Signal word** :

Danger

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#### Hazard statements

**H 314** : Causes severe skin burns and eye damage.

**H 331** : Toxic if inhaled

**H 335** : May cause respiratory irritation.

#### Precautionary statements

**P 223** : Do not allow contact with water

**P 231 +232** : Handle under inert gas . Protect from moisture.

**P 280** : Wear protective gloves/ protective clothing/ eye protection/ face protection

**P301 + P330 + P331** : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

**P303 + P361 + P353** : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water

**P304 + P340 + P311** : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.

**P305 + P351 + P338+ P310** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor

#### Supplemental Hazard information (EU)


**EUH 014** : Reacts violently with water

**EUH 029** : Contact with water liberates toxic gas

**EUH 071** : Corrosive to the respiratory tract.

**2.3 Other hazards** : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Reacts violently with water., Contact with water liberates toxic gas

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



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**IF SWALLOWED:** : Rinse mouth. Do NOT induce vomiting

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

**IF ON SKIN (or hair):** : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse. Call a doctor/Physician

### SECTION 03 : COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substance

**Synonyms :** : Ethanedioyl dichloride

**Formula :** :  $C_2Cl_2O_2$

**Molecular weight :** : 126.93 g/mol

**CAS-No. :** : 79-37-8

**EC-No. :** : 201-200-2

<b>Component</b>	<b>Classification</b>	<b>Concentration</b>
<b>Oxalyl chloride</b>	Water-react. 1; Acute Tox.3; Skin Corr. 1B; Eye Dam. 1; STOT SE 3; , H314, H331 H335	<= 100 %
<b>Phosgene</b>	Press. Gas ; Acute Tox. 2;Skin Corr. 1B; , H330, H314	>= 0,1 - < 1 %


### SECTION 04 : FIRST AID MEASURES

#### 4.1 Description of first aid measure

**General advice** : Consult a physician. Show this safety data sheet to the doctor in attendance

**If inhaled** : Remove from exposure to fresh air . If not breathing give artificial respiration. If breathing is difficult ,give artificial respiration. Consult a physician.

**In case of skin contact** : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Wash clothing before reuse. . Consult a physician.

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**In case of eye contact** : Immediately flush eyes with plenty of water for at least 15 minutes. Occasionally lifting the upper and lower eyelids. . Consult a physician.

**If swallowed** : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed** : The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed** : No data available

## SECTION 05: FIREFIGHTING MEASURES

### 5.1 Extinguishing Media

**Suitable extinguishing media** : Dry Chemical powder, Dry sand

**Unsuitable extinguishing media** : Do NOT use water jet.

**5.2 Special hazards arising from the substance or mixture** Carbon oxides, Hydrogen chloride gas

**5.3 Flash Point** : No data available

**5.4 Auto ignition temp** : No data available


### 5.5 Explosive Limit

**Lower Explosive Limit** : No data available

**Upper explosive limit** : No data available

**5.6 General Information** : As in any fire , wear a self – contained breathing apparatus with full face piece operated in a positive pressure mode. NIOSH ( approved or equivalent)

**5.7 Special advice to fire fighters** : Do not spray water directly on material . Highly water reactive material.

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- 5.8 Advice for fire-fighters** : Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so.

## SECTION 06: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions** : Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.  
For personal protection see section 8.
- 6.2 Environmental precautions** : Prevent further leakage or spillage if safe to do so. Do not let product enter drains
- 6.3 Methods and materials for containment and cleaning up** : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Do not flush with water.
- 6.4 Reference to other sections** : For disposal see section 13.

## SECTION 07: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** : Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking.  
For precautions see section 2.2
- 7.2 Conditions for safe storage, including any incompatibilities** : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep under Nitrogen blanket. Never allow product to get in contact with water during storage.
- 7.3 Specific end use(s)** : Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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## SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

**8.1 Controls Parameters** : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep air borne concentrations low

**8.2 Exposure controls** : **Appropriate engineering controls**  
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product

### Personal Protective Equipment

**Eyes /Face Protection** :



Wear Chemical Safety Goggles.  
Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Hand protection**



: Wear appropriate protective gloves to prevent skin expose.  
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.  
The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

**Body Protection**


: Wear a chemical apron.  
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

**Respiratory protection**

: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.  
Discharge into the environment must be avoided.

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## SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties


- |    |   |   |  |
|----|---|---|--|
| a) | <b>Appearance</b>                               | : | Form: liquid, Colourless to Pale yellow liquid |
| b) | <b>Odour</b>                                    | : | Pungent odour                                  |
| c) | <b>Odour Threshold</b>                          | : | No data available                              |
| d) | <b>pH</b>                                       | : | No data available                              |
| e) | <b>Melting point/freezing point</b>             | : | -10 °C   |
| f) | <b>Boiling point</b>                            | : | 62 - 64 °C -                                   |
| g) | <b>Evaporation rate</b>                         | : | No data available                              |
| h) | <b>Vapour pressure</b>                          | : | 200 kPa at 20°C                                |
| i) | <b>Vapour density</b>                           | : | 4.38 - (Air = 1.0)                             |
| j) | <b>Relative density</b>                         | : | 1.4 g/mL at 20 °C                              |
| k) | <b>Water solubility</b>                         | : | Highly reactive                                |
| l) | <b>Partition coefficient: n-octanol / water</b> | : | No data available                              |
| m) | <b>Decomposition temperature</b>                | : | No data available                              |
| n) | <b>Viscosity</b>                                | : | No data available                              |
| o) | <b>Explosive properties</b>                     | : | No data available                              |
| p) | <b>Oxidizing properties</b>                     | : | No data available                              |

### 9.2 Other safety information

- |                         |   |                    |
|-------------------------|---|--------------------|
| Relative vapour density | : | 4.38 - (Air = 1.0) |
|-------------------------|---|--------------------|

## SECTION 10: STABILITY AND REACTIVITY

- |   |   |  |
|---|---|--|
| <b>10.1 Reactivity</b>                        | : | Reacts violently with water.<br>Contact with water liberates toxic gas.  |
| <b>10.2 Chemical stability</b>                | : | Stable under recommended storage conditions.   |
| <b>10.3 Possibility of hazardous reaction</b> | : | Reacts violently with water.   |
| <b>10.4 Conditions to avoid</b>               | : | Exposure to moisture   |
| <b>10.5 Incompatible materials</b>            | : | Bases, Oxidizing agents, Alcohols  |
| <b>10.6 Hazardous decomposition products</b>  | : | Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas.<br>Other decomposition products - No data available |

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## SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1 Acute Toxicity** : LC50 Inhalation - Rat - 1 h - 1840 ppm Oxalyl choride)
- Skin corosion/irritation** : No data available
- Serious eye damage/irritation** : No data available
- Germ cell mutagenicity** : No data available
- Carcinogenicity** :
- IARC** : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
- NTP** :
- Reproductive toxicity** : No data available
- LD50** : No data available
- (Ingestion rats)**
- TLV** : No data available
- STEL** : No data available
- Specific target organ toxicity - single exposure** : May cause respiratory irritation. - Respiratory system
- Acute oral toxicity - If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.
- Acute inhalation toxicity - mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract, Inhalation may lead to the formation of oedemas in the respiratory tract.


### Specific target organ toxicity - repeated exposure

#### Aspiration hazard

- 11.2 Additional Information** : RTECS: KI2950000 Ethanedioyl dichloride

Burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.



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After absorption:

We have no description of any toxic symptoms.

Decomposition of the substance with tissue moisture.

Other dangerous properties can not be excluded.

This substance should be handled with particular care.


**Endocrine disrupting properties:** The substance has no endocrine-disrupting properties according to Regulation (EU) 2017/2100

## SECTION 12: ECOLOGICAL INFORMATION

- 12.1 Ecotoxicity** : No data available  
**Fish:**  
**Crustacea**  
**Algae:**
- 12.2 Persistence / degradability** : No data available
- 12.3 Bioaccumulative potential(BCF)** : No data available
- 12.4 Mobility in soil** : No data available
- 12.5 Log Pow:** : No data available  
**Soil adsorption (Koc}**
- 12.6 Spill forbidden** : No data available
- 12.7 Biodegradability** : No data available
- 12.8 Results of PBT and vPvB assessment** : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
- 12.9 Other adverse effects** : Reacts with water to form toxic decomposition products.  
The following may develop after reaction of the product with water: hydrochloric acid  
Discharge into the environment must be avoided.

## SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods** : **Product**  
Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other

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waste. Handle uncleaned containers like the product itself.

**13.2 Contaminated packaging** : Dispose of as unused product.

#### SECTION 14: TRANSPORT INFORMATION

##### 14.1 UN number

ADR/RID: - 2922

IMDG: - 2922

IATA -2922

Hazard class Label



##### 14.2 UN proper shipping name

ADR/RID: : CORROSIVE LIQUID, TOXIC, N.O.S. (Oxalyl choride)

IMDG: : CORROSIVE LIQUID, TOXIC, N.O.S. (Oxalyl choride)

IATA: : CORROSIVE LIQUID, TOXIC, N.O.S. (Oxalyl choride)

##### 14.3 Transport hazard class(es)

ADR/RID: - 8.Sub Risk 6.1

IMDG: - 8.Sub Risk 6.1

IMDG: -8.Sub Risk 6.1

##### 14.4 Packaging group

ADR/RID: - I

IMDG: - I

IATA : I

##### 14.5 Environmental hazards

ADR/RID: No

IMDG : Marine pollutant: No

IATA: No


##### 14.6 Special precautions for user

No data available

#### SECTION 15: REGULATORY INFORMATION

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** : This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.2 Chemical safety assessment** : For this product a chemical safety assessment was not carried out

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## SECTION 16: OTHER INFORMATION

- 16.1** The above information is believed to be accurate and represents the best information currently available to us. However we make no warranty of merchantability or any other warranty, express or implied, with respect to such information and we assume no liability resulting from it's use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall **ANSHUL SPECIALTY MOLECULES PVT. LTD.** be liable for any claims, losses or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising from use or reliance upon this information

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