

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : Chromyl chloride

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

According to Regulation (EC) No1272/2008  
Oxidizing liquids (Category 1)  
Carcinogenicity (Category 1B)  
Germ cell mutagenicity (Category 1B)  
Skin corrosion (Category 1A)  
Skin sensitization (Category 1)  
Acute aquatic toxicity (Category 1)  
Chronic aquatic toxicity (Category 1)

According to European Directive 67/548/EEC as amended.

Contact with combustible material may cause fire. May cause cancer by inhalation. May cause heritable genetic damage. Causes severe burns. May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label elements

|                  |                                                                                                             |
|------------------|-------------------------------------------------------------------------------------------------------------|
| Hazard symbol(s) |                                                                                                             |
| O                | Oxidising                                                                                                   |
| T                | Toxic                                                                                                       |
| C                | Corrosive                                                                                                   |
| N                | Dangerous for the environment                                                                               |
| R-phrases(s)     |                                                                                                             |
| R49              | May cause cancer by inhalation.                                                                             |
| R46              | May cause heritable genetic damage.                                                                         |
| R8               | Contact with combustible material may cause fire.                                                           |
| R35              | Causes severe burns.                                                                                        |
| R43              | May cause sensitization by skin contact.                                                                    |
| R50/53           | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.            |
| S-phrases(s)     |                                                                                                             |
| S53              | Avoid exposure - obtain special instructions before use.                                                    |
| S45              | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |
| S60              | This material and its container must be disposed of as hazardous waste.                                     |
| S61              | Avoid release to the environment. Refer to special instructions/ Safety data sheets.                        |

Restricted to professional users.

Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Dichlorochromium(VI) oxide

Formula : Cl2CrO2

Molecular Weight : 154,9 g/mol

| CAS-No.                                  | EC-No.    | Classification                                                                                                                                                            | Concentration |
|------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Chromic oxychloride</b><br>14977-61-8 | 239-056-8 | -                                                                                                                                                                         | -             |
|                                          |           | Ox. Liq. 1; Carc. 1B; Muta. 1B; Skin Corr. 1A; Skin Sens. 1; Aquatic Acute 1; Aquatic Chronic 1; O, T, C, N, Carc. Cat.2, Mut.Cat.2, R49 - R46 - R 8 - R35 - R43 - R50/53 |               |

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, 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. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and 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.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

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.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Normal measures for preventive fire protection.

Conditions for safe storage

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. Store in cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

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).

Hand protection

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 EU Directive 89/686/EEC and the standard EN 374 derived from it.

Eye protection

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).

Skin and body protection

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.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form liquid

Colour red

Safety data

|                       |                      |
|-----------------------|----------------------|
| pH                    | no data available    |
| Melting point         | -96,5 °C - lit.      |
| Boiling point         | 117 °C - lit.        |
| Flash point           | not applicable       |
| Ignition temperature  | no data available    |
| Lower explosion limit | no data available    |
| Upper explosion limit | no data available    |
| Density               | 1,911 g/cm3 at 25 °C |
| Water solubility      | no data available    |

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid

no data available

Materials to avoid

Reacts violently with water., Organic materials, Alcohols

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Chromium oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

May cause sensitization by inhalation.

Germ cell mutagenicity

In vivo tests showed mutagenic effects

Carcinogenicity

Carcinogen

Possible human carcinogen

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.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

|                   |                                                                                                                                 |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b> | May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. |
| <b>Ingestion</b>  | May be harmful if swallowed. Causes burns.                                                                                      |
| <b>Skin</b>       | May be harmful if absorbed through skin. Causes skin burns.                                                                     |
| <b>Eyes</b>       | Causes eye burns.                                                                                                               |

Signs and Symptoms of Exposure

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

Additional Information

RTECS: GB5775000

12. ECOLOGICAL INFORMATION

Toxicity

no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/RID

UN-Number: 1758 Class: 8 Packing group: 1

Proper shipping name: CHROMIUM OXYCHLORIDE

IMDG

UN-Number: 1758 Class: 8 Packing group: 1 EMS-No: F-A, S-B

Proper shipping name: CHROMIUM OXYCHLORIDE

Marine pollutant: No

IATA

UN-Number: 1758 Class: 8 Packing group: 1

Proper shipping name: Chromium oxychloride

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. OTHER INFORMATION

Text of H-code(s) and R-phrases(s) mentioned in Section 3

|   |                               |
|---|-------------------------------|
| C | Corrosive                     |
| N | Dangerous for the environment |
| O | Oxidising                     |
| T | Toxic                         |

|        |                                                                                                  |
|--------|--------------------------------------------------------------------------------------------------|
| R8     | Contact with combustible material may cause fire.                                                |
| R35    | Causes severe burns.                                                                             |
| R43    | May cause sensitization by skin contact.                                                         |
| R46    | May cause heritable genetic damage.                                                              |
| R49    | May cause cancer by inhalation.                                                                  |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

Further information

For R&D use only. Not for drug, household or other uses.



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WARRANTY:

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. Lookchem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.