

Material Safety Data Sheet Chromyl chloride, 99+%

#### MSDS# 07774

### Section 1 - Chemical Product and Company Identification

**MSDS** 

Chromyl chloride, 99+%

Name:

Catalog Numbers:

AC190460000, AC190460100, AC190460250

Chromic oxychloride, Chromium chloride oxide, Chromium dioxychloride; Chromium oxychloride;

Dichlorodioxochromium; Chlorochromic anhydride; Chromium dichloride dioxide; Chromium dioxide Synonyms:

dichloride.

Company Identification:

Acros Organics BVBA

Janssen Pharmaceuticalaan 3a

2440 Geel, Belgium

**Acros Organics** 

One Reagent Lane Company Identification: (USA)

Fair Lawn, NJ 07410

800-ACROS-01

+32 14 57 52 11

For information in the US, call: For information in Europe, call:

+32 14 57 52 99 Emergency Number, Europe: 201-796-7100 **Emergency Number US:** 

800-424-9300 CHEMTREC Phone Number, US:

CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#: 14977-61-8 Chemical Name: Chromyl chloride

> 99 %:

EINECS#: 239-056-8

Hazard Symbols: TOCN



Risk Phrases:



46 49 35 43 50/53 8







### Section 3 - Hazards Identification

### **EMERGENCY OVERVIEW**

Danger! Strong oxidizer. Contact with other material may cause a fire. May cause allergic skin reaction. Corrosive. Waterreactive. Light sensitive. Cancer suspect agent. Causes eye and skin burns. May cause severe respiratory tract irritation with possible burns. May cause severe digestive tract irritation with possible burns. Corrosive to metal. Target Organs: Kidneys, liver, lungs, respiratory system, eyes, skin.

#### Potential Health Effects

Eye: Causes eye burns. Vapors cause eye irritation.

Causes skin burns. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure Skin:

to this material. May cause blistering of the skin.

Ingestion: May cause severe and permanent damage to the digestive tract.

Inhalation: May cause severe allergic respiratory reaction. Causes chemical burns to the respiratory tract.

May cause liver and kidney damage. Chronic exposure to water insoluble hexavalent chromium compounds has Chronic:

been shown to be associated with lung cancer and gastrointestinal tract tumors.

Section 4 - First Aid Measures

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid Eyes:

immediately.

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing Skin:

contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.

If swallowed, do NOT induce vomiting. Get medical aid immediately. If victim is fully conscious, give a Ingestion:

cupful 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. Inhalation:

Get medical aid.

Notes to

General Information:

Treat symptomatically and supportively. Physician:

Section 5 - Fire Fighting Measures

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Strong oxidizer. Contact with other material may cause fire. During a

fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Water reactive. Material will react with water and may release a flammable and/or toxic gas. Containers may

explode in the heat of a fire. Contact with metals may evolve flammable hydrogen gas. Use water spray to

knock down acid vapors.

Use extinguishing media most appropriate for the surrounding fire. If water is the only media available, use

in flooding amounts. Do NOT get water inside containers. Contact professional fire-fighters immediately. Extinguishing Media: Cool containers with flooding quantities of water until well after fire is out. For small fires, use dry chemical

or carbon dioxide.

Autoignition Not available Temperature:

Flash Point: Not applicable.

Explosion N/A

Limits: Lower:

Explosion N/A Limits: Upper:

NFPA Rating: ; Special Hazard: OX

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Do not use combustible materials such as sawdust. Provide ventilation. Do not expose spill to water. Do not get water inside containers.

Section 7 - Handling and Storage

Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Avoid Handling: contact with clothing and other combustible materials. Avoid ingestion and inhalation. Discard contaminated shoes. Use only with adequate ventilation.

Do not store near combustible materials. Keep container closed when not in use. Store in a cool, dry, well-Storage: ventilated area away from incompatible substances. Corrosives area. Water free area. Do not store in metal containers. Store protected from light. Containers may be glass, aluminum, stainless steel.

## Section 8 - Exposure Controls, Personal Protection

+	+	+	++
Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Chromyl chloride	  0.025 ppm	0.001 mg/m3 TWA	  5 æg/m3 TWA
T.	1	l(as Cr(VI))	(listed under

| Chromium (VI) |compounds).2.5 |æg/m3 Action |Level (as Cr.); | | 5 æg/m3 TWA (as ||Cr, Cancer |hazard - see 29 | | CFR 1910.1026) | | (listed under |Chromium (VI) | compounds).

OSHA Vacated PELs: Chromyl chloride: None listed

**Engineering Controls:** 

Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**Exposure Limits** 

Personal Protective Equipment

Wear chemical splash goggles. Eyes:

Skin: Wear appropriate protective gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to prevent skin exposure.

Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the Respirators:

positive pressure mode with emergency escape provisions.

Section 9 - Physical and Chemical Properties

Physical State: Liquid Color: dark red

Odor: acrid odor - pungent odor

pH: Not available

Vapor Pressure: 20 mm Hg @ 20 deg C

Vapor Density: 5.3 (Air=1) Evaporation Rate: Not available

Viscosity: Slightly

Boiling Point: 117 deg C (242.60°F) Freezing/Melting Point: -96.5 deg C (-141.70°F)

Decomposition Temperature: Not available

Solubility in water: Reacts

Specific Gravity/Density: 1.9100g/cm3 Molecular Formula: Cl2CrO2

Molecular Weight: 154.90

Section 10 - Stability and Reactivity

Decomposes on exposure to light. Fumes in moist air. Reacts with water to form chromic acid, Chemical Stability:

chromic chloride, HCl and chlorine.

Conditions to Avoid: Light, moisture.

Incompatibilities with Water, metals, strong reducing agents, alcohols, ammonia, phosphorus, sulfur, urea, acetone, Other Materials

organic matter, sodium azide, halides, phosphorus trichloride, turpentine, combustible materials.

Hazardous

Hydrogen chloride, chlorine, toxic chromium oxide fumes. **Decomposition Products** 

Hazardous Polymerization Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 14977-61-8: GB5775000

RTECS: Not available. LD50/LC50:

Carcinogenicity: Chromyl chloride - California: carcinogen, initial date 2/27/87 (Chromium (VI) compounds). NTP: Known

carcinogen (Chromium (VI) compounds). IARC: Group 1 carcinogen

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Other: No information available.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

**US DOT** 

Shipping Name: Please contact Fisher Scientific for shipping information

Hazard Class: UN Number: Packing Group: Canada TDG

Shipping Name: Not available

Hazard Class: UN Number: Packing Group:

## Section 15 - Regulatory Information

## European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T O C N

Risk Phrases:

R 46 May cause heritable genetic damage.

R 49 May cause cancer by inhalation.

R 35 Causes severe burns.

R 43 May cause sensitization by skin contact.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 8 Contact with combustible material may cause fire.

## Safety Phrases:

S 53 Avoid exposure - obtain special instructions before use.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 60 This material and its container must be disposed of as hazardous waste.

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

### WGK (Water Danger/Protection)

CAS# 14977-61-8: 3

#### Canada

CAS# 14977-61-8 is listed on Canada's NDSL List

Canadian WHMIS Classifications: C, E, D2A

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 14977-61-8 is listed on Canada's Ingredient Disclosure List

#### **US Federal**

# TSCA

CAS# 14977-61-8 is listed on the TSCA Inventory.

Section 16 - Other Information MSDS Creation Date: 2/17/1998

Revision #7 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company 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, even if the company has been advised of the possibility of such damages.

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