

Chem Alert Report

Product Name **CHROMIC ACID.**

Ingredient	Conc.	CAS No.
CHROMIUM (VI) OXIDE	99.8%	1333-82-0
SODIUM BISULFATE	0.1%	7681-38-1

Shipping CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA
CHROMIUM TRIOXIDE, ANHYDROUS

Synonyms AR 000000157 - MANUFACTURER'S CODE, CHROMIC ACID, CHROMIC ANHYDRIDE, CHROMIUM (VI) OXIDE, CHROMIUM TRIOXIDE, TECH 00001333 - MANUFACTURER'S CODE, UL 00000158 - MANUFACTURER'S CODE,

Appearance DARK RED SOLID

Odour ODOURLESS

Use(s) LABORATORY REAGENT, LABORATORY APPLICATIONS.

Supplier FRONINE LABORATORY SUPPLIES Ph: 02 9627 3600 Emerg. Ph: 13 11 26

Stock No. 115.

Poison Sched 6

Hazchem 2W

UN No. 1463

D.G Class 5.1

Pkg Group II

EPG 5C2

Sub/Tert Risk 8

HEALTH HAZARDS

Health Hazard Summary Highly toxic - corrosive. This product has the potential to cause adverse health effects. Use safe work practices to avoid all exposure. Potential skin and respiratory sensitising agent. Hexavalent chromium compounds are classified as carcinogenic to humans (IARC Group 1).

Eye Highly corrosive - severe irritant. Contact may result in pain, lacrimation, redness, conjunctivitis, corneal burns and ulceration with possible permanent damage.

Inhalation Highly toxic - corrosive. Over exposure may result in upper respiratory and mucous membrane irritation, ulceration and perforation of the nasal septum. Respiratory sensitiser. Chronic exposure may result in liver, lung and kidney damage. Hexavalent chromium is classified as carcinogenic to humans (IARC Group 1).

Skin Corrosive - irritant. Prolonged contact may result in skin rash, dermatitis, ulceration and burns. Sensitising agent. Toxic effects may result through absorption.

Ingestion Toxic - corrosive. Ingestion may result in burns to the mouth and throat, nausea, vomiting, abdominal pain and diarrhoea with ulceration and perforation of the gastrointestinal tract. Liver and kidney damage may result.

PRECAUTIONS

Flammability Non flammable. May evolve toxic hexavalent chromium oxides when heated to decomposition. Oxidising agent, may cause fire/explosion upon contact with combustible/organic materials.

Reactivity Oxidising agent. Incompatible (explosively) combustible materials (eg. organic solvents), reducing agents, active metals (eg. lithium, aluminium), sulfur and some plastics and resins.

Ventilation Do not inhale dust/powder. This product should be used in a fume cupboard or with localised extraction ventilation.

PERSONAL PROTECTIVE EQUIPMENT

PPE Wear coveralls, dust-proof goggles or a faceshield and rubber or butyl gloves. Where an inhalation risk exists, wear an Air-line respirator or a Full-face Class P3 (Particulate) respirator.



Colour
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FIRST AID

- Eye** Hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre, or for at least 15 minutes.
- Inhalation** Leave area of exposure immediately. If assisting a victim avoid becoming a casualty, wear a Full-Face Class P3 (Particulate) respirator where an inhalation risk exists. If victim is not breathing apply artificial respiration and seek urgent medical attention.
- Skin** Remove contaminated clothing and gently flush affected areas with water. Seek medical attention if irritation develops. Launder clothing before reuse.
- Ingestion** For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor.

SAFE HANDLING

- Storage** Store in cool, dry, well ventilated area, removed from combustibles, reducing agents, active metals, sulfur, resins, plastics and foodstuffs. Contamination with incompatibles may cause fire-explosions. Ensure packages are adequately labelled, protected from physical damage and sealed when not in use.
- Waste Disposal** Wearing personal protective equipment, cover with a WEAK reducing agent (eg. sodium bisulfite, thiosulfate, or ferrous salt; but NOT sulfur, carbon or strong reducing agent). Mix well and spray with water. Add 3M sulfuric acid if sulfite or ferrous salt is used. Add to container of water and neutralise with soda ash. Collect and dispose of to approved landfill site. Contact the manufacturer for additional information.
- Transport** Class 5.1 Oxidising agent. Do not transport with chemicals of class; 1 (Explosives), 2.1/ 2.3 (Flammable/ Toxic gases), 3/ 4.1 (Flammable liquids/ solids), 4.2 (Spontaneously combustibles), 4.3 (Dangerous When Wet), 5.2 (Organic peroxides), 6 (Toxics), 7 (Radioactives), 8 (Corrosives), 9 (Miscellaneous) and foodstuffs.

EMERGENCY

- Spillage** If spilt (bulk), contact emergency services. Wear butyl/rubber gloves, a full-face Class P3 respirator or Full-face Air-line respirator, coveralls, apron and boots. Ventilate and clear area of all unprotected personnel. Collect without generating dust. Absorb with vermiculite or similar, NOT combustible or organic materials. Collect and place in sealable containers. Don't replace spilt material.
- Environment** WATER: Chromium (VI) may be reduced to Chromium (III) by organic matter present in water, and may eventually deposit in sediments. Toxic to microorganisms. May bioaccumulate. SOIL: Chromium in the soil may be transported from soil through runoff and leaching of water. ATMOSPHERE: Chromium is primarily removed from the atmosphere by fallout and precipitation and may enter surface water or soil.
- Fire and Explosion** Non flammable. Evacuate area and contact emergency services. Toxic gases (chromium oxides) may be evolved when heated. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
- Extinguishing** Non flammable. Prevent contamination of drains or waterways, absorb runoff with sand or similar.

PHYSICAL AND CHEMICAL PROPERTIES

Flammability: NON FLAMMABLE	Flash Point: NOT RELEVANT
Boiling Point: NOT AVAILABLE	Melting Point: 196 C
Exposure Standard: 0.05 mg/m ³ Chromium (VI) compounds	Evaporation Rate: NOT AVAILABLE
pH: Approximately 1 (10 g/L solution)	% Volatiles: NOT AVAILABLE
Specific Gravity: 2.7	Solubility (water): SOLUBLE
Vapour Pressure: NOT AVAILABLE	Upper Explosion Limit: NOT RELEVANT
Lower Explosion Limit: NOT RELEVANT	Decomposition Temperature: > 196 C

RED

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Last Reviewed : 01/01/2004
Date Printed : 16/08/2005