

Common Name: **CHROMIC CHLORIDE**

Synonyms: Chromium Chloride; Chromium Trichloride

CAS No: 10025-73-7

Molecular Formula: CrCl<sub>3</sub>

RTK Substance No: 2248

Description: Odorless, purple or violet, flake-like, or crystalline solid

### HAZARD DATA

Hazard Rating	Firefighting	Reactivity
<p><b>3 - Health</b></p> <p><b>0 - Fire</b></p> <p><b>0 - Reactivity</b></p> <p><b>DOT#:</b> None</p> <p><b>ERG Guide #:</b> None</p> <p><b>Hazard Class:</b> None</p>	<p>Extinguish fire using an agent suitable for type of surrounding fire. <b>Chromic Chloride</b> itself does not burn.</p> <p>POISONOUS GASES ARE PRODUCED IN FIRE, including Chlorine compounds.</p> <p>Use water spray to keep fire-exposed containers cool.</p>	<p><b>Chromic Chloride</b> reacts violently with LITHIUM and NITROGEN.</p> <p><b>Chromic Chloride</b> is not compatible with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE); MOISTURE; and WATER.</p>

### SPILL/LEAKS

**Isolation Distance:**

Spill: 25 meters (75 feet)

Fire: 800 meters (1/2 mile)

Collect powdered material in the most convenient and safe manner and place into sealed containers for disposal.

DO NOT wash into sewer.

**Chromic Chloride** is a toxic water pollutant.

### PHYSICAL PROPERTIES

<b>Flash Point:</b>	Nonflammable
<b>Specific Gravity:</b>	2.8 (water = 1)
<b>Water Solubility:</b>	Insoluble (Reacts)
<b>Boiling Point:</b>	2,373°F (1,300°C)
<b>Melting Point:</b>	2,106°F (1,152°C)
<b>Molecular Weight:</b>	158.35

### EXPOSURE LIMITS

**OSHA:** 0.5 mg/m<sup>3</sup>, 8-hr TWA

**NIOSH:** 0.5 mg/m<sup>3</sup>, 8-hr TWA

**ACGIH:** 0.5 mg/m<sup>3</sup>, 8-hr TWA

**IDLH:** 25 mg/m<sup>3</sup>

(All of the above are for *Chromium*)

The Protective Action Criteria values are:

PAC-1 = 4.57 mg/m<sup>3</sup>

PAC-2 = 7.61 mg/m<sup>3</sup>

PAC-3 = 76.1 mg/m<sup>3</sup>

### PROTECTIVE EQUIPMENT

<b>Gloves:</b>	Nitrile and Natural Rubber
<b>Coveralls:</b>	Tyvek®
<b>Respirator:</b>	>0.5 mg/m <sup>3</sup> - full facepiece APR with High efficiency filters >5 mg/m <sup>3</sup> - SCBA

### HEALTH EFFECTS

**Eyes:** Irritation and burns

**Skin:** Irritation and burns

**Inhalation:** Nose and throat irritation with coughing and wheezing

### FIRST AID AND DECONTAMINATION

**Remove** the person from exposure.

**Flush** eyes with large amounts of water for at least 15 minutes. Remove contact lenses if worn. Seek medical attention

**Quickly** remove contaminated clothing and wash contaminated skin with large amounts of soap and water. Seek medical attention.

**Begin** artificial respiration if breathing has stopped and CPR if necessary.

**Transfer** promptly to a medical facility.