

**CHROMIUM(III) CHLORIDE (ANHYDROUS)****ICSC: 1316**

**Date of Peer  
Review:  
October  
2004**

Chromic chloride  
Chromium trichloride  
Trichlorochromium

CAS # 10025-73-7 CrCl<sub>3</sub>  
RTECS # GB5425000 Molecular mass: 158.4  
UN #  
EC #

<b>TYPES OF HAZARD / EXPOSURE</b>	<b>ACUTE HAZARDS / SYMPTOMS</b>	<b>PREVENTION</b>	<b>FIRST AID / FIRE FIGHTING</b>
<b>FIRE</b>	Not combustible.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>			
<b>Inhalation</b>	Cough.	Local exhaust or breathing protection.	Fresh air, rest.
<b>Skin</b>		Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
<b>Eyes</b>	Redness.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Ingestion</b>		Do not eat, drink, or smoke during work.	Rinse mouth.
<b>SPILLAGE DISPOSAL</b>		<b>PACKAGING &amp; LABELLING</b>	
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Personal protection: P2 filter respirator for harmful particles.		<b>EU Classification</b> <b>UN Classification</b>	
<b>EMERGENCY RESPONSE</b>		<b>SAFE STORAGE</b>	

**IPCS**  
International  
Programme  
on  
Chemical  
Safety



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## CHROMIUM(III) CHLORIDE (ANHYDROUS)

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### IMPORTANT DATA

**PHYSICAL STATE; APPEARANCE:**  
VIOLET CRYSTALS.

**OCCUPATIONAL EXPOSURE LIMITS:**  
TLV: (as Cr metal, Cr(III) compounds) 0.5 mg/m<sup>3</sup>  
as TWA; A4; (ACGIH 2004).  
MAK not established.

**INHALATION RISK:**

A harmful concentration of airborne particles can  
be reached quickly when dispersed.

**EFFECTS OF SHORT-TERM EXPOSURE:**  
May cause mechanical irritation to the eyes and  
the respiratory tract.

### PHYSICAL PROPERTIES

Boiling point (decomposes): 1300°C  
Melting point: 1152°C  
Density: 2.87 g/cm<sup>3</sup>  
Solubility in water: none

### ENVIRONMENTAL DATA

### NOTES

The recommendations on this card do not apply to water soluble forms of chromium chloride. See  
ICSC 1532 Chromium(III) chloride hexahydrate.

### ADDITIONAL INFORMATION

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