

Common Name: LITHIUM CHROMATE

Synonyms: Dilithium Chromate; Chromium Lithium Oxide

CAS No: 14307-35-8

 Molecular Formula: Li_2CrO_4

RTK Substance No: 1125

Description: Yellow, odorless powder

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
4 - Health	Extinguish fire using an agent suitable for type of surrounding fire. Lithium Chromate itself does not burn.	Lithium Chromate is an OXIDIZER which can react with ORGANICS; COMBUSTIBLES; REDUCING AGENTS (such as LITHIUM, SODIUM, ALUMINUM and their HYDRIDES); and STRONG ACIDS (such as HYDROCHLORIC, SULFURIC and NITRIC).
0 - Fire	POISONOUS GASES ARE PRODUCED IN FIRE, including <i>Lithium Oxides and Chromium Oxides</i> .	Mixtures of <i>Chromate</i> and ZIRCONIUM can be explosive.
0 - Reactivity	Use water spray to keep fire-exposed containers cool.	
DOT#: UN 3077		
ERG Guide #: 171		
Hazard Class: 5.1 (Oxidizer)	Lithium Chromate may ignite combustibles (wood, paper and oil).	

SPILL/LEAKS
Isolation Distance:

Spill: 25 meters (75 feet)

Fire: 800 meters (1/2 mile)

Moisten spilled material first or use a HEPA-filter vacuum for clean-up and deposit into sealed containers.

DO NOT wash into sewer.

May be detrimental to aquatic life.

PHYSICAL PROPERTIES
Odor Threshold: Odorless

Flash Point: Nonflammable

Vapor Density: 5.72 (air = 1)

Specific Gravity: 2.2 (water = 1)

Water Solubility: Soluble

Melting Point: 166°F (75°C)

Molecular Weight: 130

EXPOSURE LIMITS
OSHA: 0.005 mg/m³, 8-hr TWA

NIOSH: 0.001 mg/m³, 10-hr TWA

ACGIH: 0.05 mg/m³, 8-hr TWA

IDLH: 15 mg/m³ (as Chromates)

 All of the above are for *hexavalent Chromium (Cr VI)*
PROTECTIVE EQUIPMENT
Gloves: Neoprene and Natural Rubber

Coveralls: DuPont Tyvek®

Respirator: >0.001 mg/m³ - APR with High efficiency filters
>0.01 mg/m³ - Supplied air

HEALTH EFFECTS
Eyes: Severe irritation and burns

Skin: Severe irritation and burns

Inhalation: Nose, throat and lung irritation with coughing and wheezing
Nausea, muscle cramps and convulsions

Chronic: *Hexavalent Chromium or Chromium VI compounds* cause lung cancer in humans

FIRST AID AND DECONTAMINATION
Remove the person from exposure.

Flush eyes with large amounts of water for at least 30 minutes. Remove contact lenses if worn. Seek medical attention immediately.

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

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

Transfer promptly to a medical facility.