

# POTASSIUM CHROMATE

PCH

CAUTIONARY RESPONSE INFORMATION			
Common Synonyms	Solid	Bright yellow	Odorless
Neutral potassium chromate Potassium chromate (VI)  Sinks and mixes with water.  <b>Keep people away. Avoid contact with solid and dust.</b> <b>Shut off ignition sources and call fire department.</b> <b>Notify local health and pollution control agencies.</b> <b>Protect water intakes.</b>			
Fire	Not flammable. Will increase the intensity of a fire. May cause fire on contact with combustibles. Flood discharge area with water. Cool exposed containers with water.		
Exposure	<b>CALL FOR MEDICAL AID.</b> <b>DUST</b> Irritating to eyes, nose and throat. If inhaled will cause coughing or difficult breathing. If in eyes, hold eyelids open and flush with plenty of water. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen.  <b>SOLID</b> <b>POISONOUS IF SWALLOWED.</b> Irritating to skin and eyes. If swallowed will cause nausea, vomiting or loss of consciousness. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk and have victim induce vomiting. IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm.		
Water Pollution	<b>HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS.</b> May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.		

1. CORRECTIVE RESPONSE ACTIONS	2. CHEMICAL DESIGNATIONS
Dilute and disperse Stop discharge Dredge contaminated sediment	2.1 CG Compatibility Group: Not listed. 2.2 Formula: K <sub>2</sub> CrO <sub>4</sub> 2.3 IMO/UN Designation: Not listed 2.4 DOT ID No.: Not listed. 2.5 CAS Registry No.: 7789-00-6 2.6 NAERG Guide No.: 171 2.7 Standard Industrial Trade Classification: 52389
<b>3. HEALTH HAZARDS</b>	
3.1 Personal Protective Equipment: Bu. of Mines approved filter-type respirator; close-fitting safety goggles; rubber boots and apron; safety hat; face shield 3.2 Symptoms Following Exposure: Inhalation causes local irritation of mucous membranes; continuing nose irritation can result in perforation of nasal septum. Ingestion may cause violent gastroenteritis, circulatory collapse, vertigo, coma, and toxic nephritis; ingestion of excessive quantities can be fatal. Contact with eyes causes severe irritation and conjunctivitis. Repeated or prolonged exposure to dust, mist, or solutions may cause dermatitis; contact with breaks in the skin may cause "chrome sores" appearing as slow-healing, hard-rimmed ulcers which leave the area vulnerable to infection. 3.3 Treatment of Exposure: INHALATION: move to fresh air. INGESTION: give large amount of water; induce vomiting; treat peripheral vascular shock vigorously; get medical attention. EYES: flush with water for at least 15 min.; get medical attention. SKIN: flush with water; if irritation persists, get medical attention. 3.4 TLV-TWA: Not listed. 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed. 3.7 Toxicity by Ingestion: Grade 3; LD <sub>50</sub> = 50-500 mg/kg 3.8 Toxicity by Inhalation: Currently not available. 3.9 Chronic Toxicity: Lung cancer may occur. 3.10 Vapor (Gas) Irritant Characteristics: Currently not available 3.11 Liquid or Solid Characteristics: Currently not available 3.12 Odor Threshold: Currently not available 3.13 IDLH Value: Not listed. 3.14 OSHA PEL-TWA: Not listed. 3.15 OSHA PEL-STEL: Not listed. 3.16 OSHA PEL-Ceiling: Not listed. 3.17 EPA AEGL: Not listed	

4. FIRE HAZARDS	7. SHIPPING INFORMATION
4.1 Flash Point: Not flammable but may intensify fire.	7.1 Grades of Purity: Reagent, 99%; CP; Technical
4.2 Flammability Limits in Air: Not flammable	7.2 Storage Temperature: Ambient
4.3 Fire Extinguishing Agents: Not pertinent	7.3 Inert Atmosphere: No requirement
4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent	7.4 Venting: Open
4.5 Special Hazards of Combustion Products: Not pertinent	7.5 IMO Pollution Category: Currently not available
4.6 Behavior in Fire: May increase intensity of fire if in contact with combustible materials. Cool containers and spilled material with plenty of water.	7.6 Ship Type: Currently not available
4.7 Auto Ignition Temperature: Not pertinent	7.7 Barge Hull Type: Currently not available
4.8 Electrical Hazards: Not pertinent	
4.9 Burning Rate: Not pertinent	
4.10 Adiabatic Flame Temperature: Currently not available	
4.11 Stoichiometric Air to Fuel Ratio: Not pertinent	
4.12 Flame Temperature: Currently not available	
4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent.	
4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	

8. HAZARD CLASSIFICATIONS	9. PHYSICAL & CHEMICAL PROPERTIES
8.1 49 CFR Category: Not listed.	9.1 Physical State at 15°C and 1 atm: Solid
8.2 49 CFR Class: Not pertinent	9.2 Molecular Weight: 194.20
8.3 49 CFR Package Group: Not listed.	9.3 Boiling Point at 1 atm: Not pertinent (decomposes)
8.4 Marine Pollutant: No	9.4 Freezing Point: Not pertinent
8.5 NFPA Hazard Classification: Not listed	9.5 Critical Temperature: Not pertinent
8.6 EPA Reportable Quantity: 10 pounds	9.6 Critical Pressure: Not pertinent
8.7 EPA Pollution Category: A	9.7 Specific Gravity: 2.73 at 18°C (solid)
8.8 RCRA Waste Number: Not listed	9.8 Liquid Surface Tension: Not pertinent
8.9 EPA FWPCA List: Yes	9.9 Liquid Water Interfacial Tension: Not pertinent
	9.10 Vapor (Gas) Specific Gravity: Not pertinent
	9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent
	9.12 Latent Heat of Vaporization: Not pertinent
	9.13 Heat of Combustion: Not pertinent
	9.14 Heat of Decomposition: Not pertinent
	9.15 Heat of Solution: Not pertinent
	9.16 Heat of Polymerization: Not pertinent
	9.17 Heat of Fusion: 35.6 cal/g
	9.18 Limiting Value: Currently not available
	9.19 Reid Vapor Pressure: Currently not available

## NOTES

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9.20 SATURATED LIQUID DENSITY		9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
	NOT PERTINENT		NOT PERTINENT		NOT PERTINENT		NOT PERTINENT

9.24 SOLUBILITY IN WATER		9.25 SATURATED VAPOR PRESSURE		9.26 SATURATED VAPOR DENSITY		9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
34	57.390		NOT		NOT		NOT
36	57.780						
38	58.170						
40	58.550						
42	58.940						
44	59.330		PERTINENT		PERTINENT		PERTINENT
46	59.720						
48	60.110						
50	60.500						
52	60.890						
54	61.280		PERTINENT		PERTINENT		PERTINENT
56	61.670						
58	62.050						
60	62.440						
62	62.830						
64	63.220						
66	63.610						
68	64.000						
70	64.389						
72	64.780						
74	65.169						
76	65.549						
78	65.940						
80	66.330						
82	66.719						
84	67.110						