MATERIAL SAFETY DATA SHEET

KEMTEC EDUCATIONAL CORPORATION
8944 Beckett Rd.
West Chester, OH 45069
(513) 860-4949
Fax (513) 682-8181

MSDS No. PP 480
Effective Date January 8, 1998

SECTION I NAME

24 HOUR EMERGENCY ASSISTANCE
CHEMTREC 800-424-9300
Day 716-226-6177

Product	POTASSIUM CHROMATE
Chemical Synonyms	Dipotassium Chromate; Neutral Potassium Chromate
Formula	K_2CrO_4
Unit Size	up to 2.5 Kg.
C.A.S. No.	7789-00-6

NFPA HAZARD RATING / HMIS *

	Health	Fire	Reactivity
HMIS *	4	0	2

LEAST SLIGHT MODERATE HIGH EXTREME
0 1 2 3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Potassium Chromate	100%	See Section V.

DANGER! POISON! STRONG OXIDIZER! HARMFUL IF INHALED, SWALLOWED OR ABSORBED THROUGH SKIN. CAUSES IRRITATION. CANCER HAZARD. MAY CAUSE RASH OR ULCERS ON OPEN SKIN OR MUCOUS MEMBRANES.

SECTION III PHYSICAL DATA

Melting Point (°F)	975°C (1787°F)	Specific Gravity (H_2O = 1)	2.732 at 18°C
Boiling Point (°F)	Not applicable.	Percent Volatile by Volume (%)	Not applicable.
Vapor Pressure (mm Hg)	Not applicable.	Evaporation Rate (=1)	Not applicable.
Vapor Density (Air=1)	Not applicable.		
Solubility in Water	Soluble.		
Appearance & Odor	Yellow crystals; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

			Lower	Upper
Flash Point (Method Used)	Non-flammable (NA).	Flammable Limits in Air % by Volume NA	.....	.....
Extinguisher Media	Use any media suitable for extinguishing supporting fire.			

SPECIAL FIREFIGHTING PROCEDURES

If fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

(1993 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.6, GUIDE PAGE NO. 53)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Although not flammable, may intensify fire when in contact with combustible materials. Water runoff may contain chromium compounds and should not be allowed to enter sewers or waterways. Use a NIOSH/MSHA-approved, self-contained breathing apparatus if exposure to chromium dust or mist is possible.

D.O.T. **TOXIC SOLID, INORGANIC, N.O.S., (POTASSIUM CHROMATE), 6.1, UN 3288**

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA

Threshold Limited Value
RTECS No. GB2940000 Toxicity data: orl-mus LD50: 180 mg/kg. TWA: 0.5 mg (as Chromium) per m^3. OSHA (ceiling): 0.1 mg (CrO_3) per m^3. (ACGIH 1992-93).

Effects of Overexposure
INHALATION: Chromate dusts or mists can cause ulceration and perforation of nasal septum, as well as irritation and ulceration of the respiratory system. Overexposure to chromium compounds may cause lung cancer risk. INGESTION: Can be harmful or fatal if swallowed. Toxic effects may not appear right away. A systemic poison; chromates are primarily toxic to the kidneys, liver, and gastrointestinal tract. Dusts and solutions can cause irritation. Contact with breaks in the skin can cause "chrome sores".

Emergency and First Aid Procedures
SKIN: Wash with soap and flush with plenty of water without delay. Remove contaminated clothing and wash before reuse. EYES: Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. INGESTION: If swallowed, if conscious, immediately have victim drink water and induce vomiting. Repeat until vomit fluid is clear. Never give anything by mouth to an unconscious person. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention for ingestion, inhalation, irritation, chemical or thermal burns or "chrome sores", (skin ulcers). Chromates are skin sensitizers. Skin absorption has been reported. EYES: Dusts, mists, or solutions can cause severe irritation and conjunctivitis.

SECTION VI REACTIVITY DATA

Stability			Conditions to Avoid
	Unstable		Excessive temperature and heat.
	Stable	X	

Incompatibility (Materials to Avoid) Reducing agents. Most organic substances, bromides, iodides, chlorides, hypophosphites, sulfites, sulfides. Combustible materials.

Hazardous Decomposition Products Potassium oxide.

Hazardous Polymerization		Conditions to Avoid
May Occur	Will Not Occur	Not applicable.
	X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled
Eliminate all ignition sources. Wear proper protective clothing. Sweep up and place in a suitable container. Flush spill area with water. Keep wash water out of sewers. Collect for disposal.

Waste Disposal Method
Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.
Dispose of in an approved chemical landfill or contract with an approved and licensed disposal agency.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) Not required in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.

Ventilation				
	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	Adequate to maintain below exposure limit.

Protective Gloves Rubber. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Goggles, smock, apron, eye wash station, proper gloves, ventilation hood.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing
Keep container tightly closed when not in use.
Store in a cool, dry, well-ventilated area, away from reducing agents. Wash thoroughly after handling.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.
NOTE: Chromium compounds in the form of chromates and dichromates have been found to be mutagenic in bacterial and mammalian cells, including those of the Chinese hamster. Recent studies indicate a significant risk of lung cancer among long-term employees of the chromate producing industry.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 4 | Date 1/8/98 | Approved Michael Reszela | Chemical Safety Coordinator MR

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards. Printed on recycled paper.