KEMTEC **EDUCATIONAL** CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. Effective Date PP 480 January 8, 1998

Fax (513) 682-8181 24 HOUR EMERGENCY ASSISTANCE SECTION I NAME **Product** POTASSIUM CHROMATE CHEMTREC Health 4 800-424-9300 Chemical Dipotassium Chromate; Neutral Potassium Chromate 0 Fire Day 718-228-8177 Synonyme 2 Reactivity Formula K,CrO, NĚPA HMIS HAZARD RATING Unit Size up to 2.5 Kg. SUGHT MODERATE EXTREME HIGH 3 C.A.S. No. 7789-00-8 INGREDIENTS OF MIXTURES SECTION II **TLV Units** Principal Component(s) See Section V. 100% Potassium Chromate STRONG OXIDIZERI HARMFUL IF INHALED. \$ POISONI DANGERI SWALLOWED OR ABSORBED THROUGH SKIN. CAUSES IRRITATION. CANCER HAZARD. MAY CAUSE RASH OR ULCERS ON OPEN SKIN OR MUCOUS HEMBRANES. PHYSICAL DATA SECTION III Specific Gravity (H,O = 1) 2,732 at 18°C Melting Point (°F) 975°C (1787°F) Percent Volatile Not applicable. Bolling Point (°F) Not applicable. by Volume (%) Evaporation Rate Not applicable. =1) Not applicable. Vapor Pressure (mm Hg) Vapor Density (Air=1) Not applicable. Solubility in Water Soluble. Yellow crystals; no odor. Appearance & Odor

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SECTION	J IV	FIRE AND	EXPLOSIO	N HAZAI	HUUAHA				
Flesh Point			Flammable Limits	in Air	Lower	Upper			
(Method Used)	Non-flan	nmable (NA).	% by Volume	NA					
(method date)	HOITHAN	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	the state of the s						
Extinguisher	the collection for authorizing augmenting fire								
Marila	Use any media sultable 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.

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

Threshold		RIECS No. GB2840000	Toxicity data: onl-mus LD50; 180 mg/kg. TWA: 0.5 A (celling): 0.1 mg (CrO ₃) per m ³ . (ACGIH 1992-93)	mg (as .			
Effects of	Overexpos	inhalation: Chromat septum, as well as tritati chromium compounds m if swallowed. Toxio effect	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. Toxio effects may not appear right away. A systemic polson; chromates are primarily toxic to the kidneys, liver, and gastrokitestinal tract. Dusts and solutions can cause irritation. Contact with breaks in the skin can cause "chrome sores".				
Emergen First Aid	cy and Procedur	SKIN: Wash with sosp contaminated clothing at least 15 minutes, iffling INGESTION: If ewallow vomiting. Repeat until v unconsclous person. IN respiration, infration, che chometes are akin sen	SKIN: Wash with sosp and flush with planty of water without delay. Remove contaminated clothing and wash before reuse. EYES: Flush thoroughly with water for at least 15 minutes. Iffling upper and lower syellds occasionally. Get medical attention. IMCESTION: If swellowed, if conscious, immediately have victim dink water and induce vomiting. Repeat until vomit fluid is clear. Never give enything by mouth to an unconscious person. IMHALATION: Remove to fresh air. If not breathing, give artificial respiration, if breathing is difficult, give oxygen. Get medical attention for ingestion, inhalation, initiation, 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.				
SECTIO	N VI	REACTIVITY D	ATA				
Stability	Unstable	Conditions to	Avoid Excessive temperature and he	at.			
	Stable	X					
Incompatibility Re(Materials to Avoid)		Reducing agents. Most on hypophosphiles, sullites,	educing agents. Most organic substances, bromides, lodides, chioddes, pophosphites, sullites, sullides. Combustible materials.				

Inco (Materials to Avoid) Hazardous Potassium oxide. **Decomposition Products** Conditions to Avoid Hazardous Polymerization Not applicable. May Occur Will Not Occur X

SPILL OR LEAK PROCEDURES SECTION VII

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.

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. Waste Disposal Method

Dispose of in an approved chemical landlill or contract with an approved and ilcensed disposal agency.

SECTION VIII		SP	ECIAL PROT	EC	TION IN	FOR	MATION	
Respiration Protection (Specify Type)		Not required in normal laboratory handling. If dusty conditions prevail, work in ventiliation hood or wear a NIOSH/MSHA-approved dust mask or respirator.						
	Local Exhaust		Recommended.		Special	No.		
Ventilation		cel (General)	Recommended.		Other	The state of the s	Adequate to maintain below exposure limit.	
Protective Gloves		The same of the sa			Eye Protection		Chemical safety glasses.	

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

SECTION IX Precautions to be Taken in Handling & Storing

SPECIAL PRECAUTIONS

Store in a cool, dry, well-ventilated area, away from reducing agents. Wash thoroughly after handling.

Keep container lightly closed when not in use Read label on container before using. Do not wear contact lervese when working with chemicals,

Other Precautions 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 harnster. 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.

MR Michael Reszele 1/8/98 | Approved Coordinator Revision No. 4 | Date 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 salety and health of employees. * Hazardous Materials Industrial Standards, Printed on recycled paper,