





Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment						
	<table><tr><td>Health Hazard</td><td>2</td></tr><tr><td>Fire Hazard</td><td>0</td></tr><tr><td>Reactivity</td><td>0</td></tr></table>	Health Hazard	2	Fire Hazard	0	Reactivity	0	<div></div> <div>See Section 15.</div>
	Health Hazard	2						
Fire Hazard	0							
Reactivity	0							

Section 1. Chemical Product and Company Identification			Page Number: 1		
Common Name/ Trade Name		Potassium Chromate TS		Catalog Number(s).	P-224
				CAS#	Mixture.
Manufacturer		SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		RTECS	Not applicable.
				TSCA	TSCA 8(b) inventory: Water; Potassium chromate
Commercial Name(s)		Not available.		CI#	Not available.
Synonym		Not available.		<u>IN CASE OF EMERGENCY</u> <u>CHEMTREC (24hr) 800-424-9300</u> CALL (310) 516-8000	
Chemical Name		Not applicable.			
Chemical Family		Not available.			
Chemical Formula		Not applicable.			
Supplier		SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

Section 2. Composition and Information on Ingredients					
		Exposure Limits			
Name	CAS #	TWA (mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	% by Weight
1) Water	7732-18-5				90
2) Potassium chromate	7789-00-6	0.05			10
Toxicological Data on Ingredients		Potassium chromate: ORAL (LD50): Acute: 180 mg/kg [Mouse].			

Section 3. Hazards Identification	
Potential Acute Health Effects	Hazardous in case of eye contact (irritant). Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Classified A1 (Confirmed for human.) by ACGIH, 1 (Proven for human.) by IARC [Potassium chromate]. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. [Potassium chromate]. Mutagenic for bacteria and/or yeast. [Potassium chromate]. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to blood, kidneys, liver, skin. Repeated or prolonged exposure to the substance can produce target organs damage.

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Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation	Not available.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Serious Ingestion	Not available.

Section 5. Fire and Explosion Data

Flammability of the Product	Non-flammable.
Auto-Ignition Temperature	Not applicable.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not available.
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in Presence of Various Substances	Non-explosive in presence of open flames and sparks, of shocks.
Fire Fighting Media and Instructions	Not applicable.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

Section 6. Accidental Release Measures

Small Spill	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7. Handling and Storage

Precautions	Keep locked up.. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.
Personal Protection	Splash goggles. Lab coat. Gloves. Respiratory protection is not necessary for normal handling. Adequate general (room) ventilation or local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	Potassium chromate TWA: 0.05 (mg(Cr)/m ³) from ACGIH (TLV) [United States] Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical state and appearance	Liquid.	Odor	Not available.
Molecular Weight	Not applicable.	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Clear Yellow.
Boiling Point	The lowest known value is 100°C (212°F) (Water).		
Melting Point	Not available.		
Critical Temperature	Not available.		
Specific Gravity	Weighted average: 1.07 (Water = 1)		
Vapor Pressure	The highest known value is 2.3 kPa (@ 20°C) (Water).		
Vapor Density	The highest known value is 0.62 (Air = 1) (Water).		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water.		
Solubility	Easily soluble in cold water, hot water.		

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Incompatible materials
Incompatibility with various substances	Slightly reactive to reactive with reducing agents, combustible materials, organic materials.
Corrosivity	Non-corrosive in presence of glass.
Special Remarks on Reactivity	Hydrazine, combustible, organic, or other readily oxidizable materials: wood, paper, sulfur, aluminum, plastics, chromic acid, chromates. (Potassium chromate)
Special Remarks on Corrosivity	Not available.
Polymerization	Will not occur.

Section 11. Toxicological Information

Routes of Entry	Skin contact. Eye contact.
Toxicity to Animals	Acute oral toxicity (LD50): 1800 mg/kg (Mouse) (Calculated value for the mixture).
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Classified A1 (Confirmed for human.) by ACGIH, 1 (Proven for human.) by IARC [Potassium chromate]. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. [Potassium chromate]. Mutagenic for bacteria and/or yeast. [Potassium chromate]. May cause damage to the following organs: blood, kidneys, liver, skin.
Other Toxic Effects on Humans	Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	May cause adverse reproductive effects. May affect genetic material (mutagenic). May cause cancer (Potassium chromate)
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: May cause skin irritation. Contact with broken skin may cause absorption, which may cause systemic poisoning affecting behavior/central nervous system, kidney and liver. Absorption may also affect the gastrointestinal tract and cause nausea and vomiting. Eyes: Can cause eye irritation, blurred vision, redness, pain. May cause conjunctivitis. Inhalation: It may cause irritation of the upper respiratory tract, mucous membranes. Symptoms may include sore throat, coughing, wheezing, shortness of breath. Ingestion: May be harmful if swallowed. It may cause irritation of the mouth, throat and stomach (gastrointestinal tract). Symptoms may include sore throat, thirst, nausea, vomiting, diarrhea, gastroenteritis. This product contains Potassium Dichromate which may affect behavior/central nervous system (dizziness, muscle weakness), liver (liver damage), and kidneys (acute renal failure, toxic nephritis, albuminuria, necrosis in the kidney). Chronic Potential Health Effects: Skin: Prolonged or repeated skin contact may cause dermatitis. Ingestion: Prolonged or repeated ingestion of Potassium Chromate may cause loss of appetite, nausea, vomiting, inflammation of the liver or even acute hepatitis with jaundice, leukocytosis, leukopenia, monocytosis, and eosinophilia. Chronic ingestion may also affect the kidneys and cause kidney damage.


Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.
Special Remarks on the Products of Biodegradation	Not available.

Section 13. Disposal Considerations

Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
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Section 14. Transport Information

DOT Classification	Not a DOT controlled material (United States).
Identification	Not applicable.
Special Provisions for Transport	Not applicable.
DOT (Pictograms)	

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations	<p>California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Potassium chromate (Listed as Chromium (hexavalent compounds))</p> <p>California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Potassium chromate (Listed as Chromium (hexavalent compounds))</p> <p>Connecticut hazardous material survey.: Potassium chromate</p> <p>Illinois chemical safety act: Potassium chromate</p> <p>New York release reporting list: Potassium chromate</p> <p>Pennsylvania RTK: Potassium chromate</p> <p>Massachusetts RTK: Potassium chromate</p> <p>Massachusetts spill list: Potassium chromate</p> <p>New Jersey: Potassium chromate</p> <p>New Jersey spill list: Potassium chromate</p> <p>Louisiana spill reporting: Potassium chromate</p> <p>California Director's List of Hazardous Substances: Potassium chromate</p> <p>TSCA 8(b) inventory: Water; Potassium chromate</p> <p>TSCA 6 final risk management: Potassium chromate</p> <p>TSCA 8(a) IUR: Potassium chromate</p> <p>TSCA 12(b) one time export: Potassium chromate</p> <p>SARA 313 toxic chemical notification and release reporting: Potassium chromate 10%</p> <p>CERCLA: Hazardous substances.: Potassium chromate: 10 lbs. (4.536 kg);</p>
California Proposition 65 Warnings	<p>California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Potassium chromate (Listed as Chromium (hexavalent compounds))</p>

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California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.

Other Regulations

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications**WHMIS (Canada)**

CLASS D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC)

R22- Harmful if swallowed.
R36- Irritating to eyes.

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S46- If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.)

Health Hazard	2
Fire Hazard	0
Reactivity	0
Personal Protection	j

National Fire Protection Association (U.S.A.)

Health	1	0	Flammability
			Reactivity
			Specific hazard

WHMIS (Canada) (Pictograms)**DSCL (Europe) (Pictograms)****TDG (Canada) (Pictograms)****ADR (Europe) (Pictograms)****Protective Equipment**

Gloves.



Lab coat.



Wear appropriate respirator when ventilation is inadequate.

Splash goggles.

Section 16. Other Information**MSDS Code** P224S**References** Not available.**Other Special Considerations** Not available.

Validated by Sonia Owen on 7/13/2007.

Verified by Sonia Owen.

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CALL (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.