

MSDS

POTASSIUM DICHROMATE Aqueous Solutions, < 1% (w/v), < 0.204 Normal (0.034 Molar), HEXAVALENT CHROMIUM STANDARD

Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Catalog Number: 2095, 6045, 6050, 6056, 6060, 6062, 6064, 6065, 6087, 6088, ACR61KW, M00I0055, M00I0056, P-295, P-300, P-301, P-305, P070080, P070100, PX-1071, R6041500, R6086100, R6086200, R6086250, R6086400, R6087100, R6087300, R6087500, S2360000, SP070040, SP070080, SP070100	
Product Identity: POTASSIUM DICHROMATE Aqueous Solutions, < 1% (w/v), < 0.204 Normal (0.034 Molar), HEXAVALENT CHROMIUM STANDARD	
Manufacturer's Name: RICCA CHEMICAL COMPANY LLC	Emergency Contact(24 hr) -- CHEMTREC® Domestic: 800-424-9300 International: 703-527-3887
CAGE Code: 0V553	
Address: 448 West Fork Dr Arlington, TX 76012	Telephone Number For Information: 817-461-5601
Date Prepared: 6/25/99	Revision: 17 Last Revised: 05/22/2007 Date Printed: 06/15/2007 4:26:54 pm

Section 2. Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Water, Deionized	7732-18-5	Balance	Not Available Not Available	Not Available Not Available
Potassium Dichromate	7778-50-9	< 1	Not Available Not Available	Not Available Not Available

Section 3: Hazard Identification

Emergency Overview: WARNING! Contains Hexavalent Chromium compound, which is a known carcinogen. Harmful if swallowed or absorbed through skin. Avoid ingestion and contact with skin, eyes, or clothing. May cause irritation to eyes and skin. Wash areas of contact with plenty of water. If ingested, dilute with water and induce vomiting. Call a physician.

Target Organs: eyes, skin, blood, liver, kidneys, mucous membranes, nasal septum.

Eye Contact: May cause irritation, redness, pain, and tearing.

Inhalation: Inhalation of dust may cause ulceration and perforation of the nasal septum. Higher exposures may cause pulmonary edema.

Skin Contact: May cause irritation, redness, and pain.

Ingestion: Toxic effects are not expected to be as severe as higher concentrations. Can cause sore throat, vomiting, and diarrhea. Suspected of causing liver damage.

Chronic Effects/Carcinogenicity: Chronic poisoning can lead to liver damage.

IARC - Potassium Dichromate is carcinogenic to humans.

NTP - No.

OSHA - No.

Reproductive Information: Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Potassium Dichromate.

MSDS

POTASSIUM DICHROMATE Aqueous Solutions, < 1% (w/v), < 0.204 Normal (0.034 Molar), HEXAVALENT CHROMIUM STANDARD

Teratology (Birth Defect) Information: Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Potassium Dichromate.

Section 4: First Aid Measures - In all cases, seek qualified evaluation.

Eye Contact: Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Skin Contact: Immediately flush with plenty of water for at least 15 minutes. Remove any contaminated clothing. Wash with soap and water, then flush again with water. Call a physician if irritation develops.

Ingestion: Dilute immediately with water or milk. Induce vomiting. Call a physician.

Section 5: Fire Fighting Measures

Flash Point: Not Available.

Method Used: Not Available.

LFL: Not Available.

UFL: Not Available.

Extinguishing Media: Use any means suitable for extinguishing surrounding fire (Water, water spray, foam, or dry chemical). If using water, do not allow water run off to enter sewer.

Fire & Explosion Hazards: Not considered to be a fire or explosion hazard. Contact with oxidizable substances may cause violent combustion.

Fire Fighting Instructions: Use normal procedures/instructions.

Fire Fighting Equipment: Use protective clothing and breathing equipment appropriate for the surrounding fire.

Section 6: Accidental Release Measures

Do not flush to sewer. Absorb with suitable material. Containerize for disposal with a hazardous waste disposal facility. Dispose of in accordance with local regulations.

Section 7. Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

Safety Storage Code: Health

Section 8: Exposure Control/Personal Protection

Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.

Respiratory Protection: Normal room ventilation is adequate.

Skin Protection: Chemical resistant gloves.

Eye Protection: Safety glasses or goggles.

Section 9: Physical and Chemical Properties

Appearance: Clear, orange liquid

Odor: Odorless

Solubility in Water: Infinite

Specific Gravity: Approximately 1

pH: approximately 4

Boiling Point(°C): Approximately 100

Melting Point(°C): Approximately 0

Vapor Pressure: Not Applicable.

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.

Incompatibility: Reducing Agents, Acetone plus Sulfuric Acid, Boron plus Silicon, Ethylene Glycol, Iron, Hydrazine, and Hydroxylamine. Any combustible organic or other readily oxidizable material (paper, wood, sulfur, aluminum, or plastics).

Hazardous Decomposition Products: Toxic fumes of Chromium Oxides may form when heated to decomposition.

Hazardous Polymerization: Will not occur.

Section 11. Toxicological Information

LD50, Oral, Rat: 25 mg/kg (Potassium Dichromate), Behavioral and sensory effects noted. LD50, Dermal, Rabbit: 14 mg/kg (Potassium Dichromate) respiratory, gastrointestinal and skin effects noted.

MSDS

POTASSIUM DICHROMATE Aqueous Solutions, < 1% (w/v), < 0.204 Normal (0.034 Molar), HEXAVALENT CHROMIUM STANDARD

Section 12. Ecological Information

Ecotoxicological Information: Chromium (VI) has high acute and chronic toxicity to aquatic life.

Chemical Fate Information: Chromium (VI) is highly persistent in water with a half-life of greater than 200 days. When released into the soil, this material may leach into groundwater. This material may bioaccumulate to some extent.

Section 13. Disposal Considerations

Absorb with suitable material (vermiculite, clay, NOT paper or cardboard). Do not flush to the sewer. Containerize for disposal in a RCRA approved hazardous waste facility. Always dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information

Part Numbers:

This product is not regulated.

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

OSHA Status: These items meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

TSCA Status: All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

Sara Title III:

Section 302 Extremely Hazardous Substances: Not Applicable.

Section 311/312 Hazardous Categories: Acute, Chronic: Yes Fire, Pressure, Reactivity: No

Section 313 Toxic Chemicals: Not Applicable.

California: None Reported.

Pennsylvania: Potassium Dichromate is listed as an Environmental Hazard on the state's Hazardous Substances List.

RCRA Status: Not Applicable.

CERCLA Reportable Quantity: Potassium Dichromate - 10 pounds.

WHMIS: D-2A: Poisonous and Infectious Material. Materials causing other toxic effects - Very Toxic Material.



Section 16. Other Information

NFPA Ratings:

Health: 2 Flammability: 0 Reactivity: 0 Special Notice Key: None

HMIS Ratings:

Health: 2* Flammability: 0 Reactivity: 0 Protective Equipment: B (Protective Eyewear, Gloves)

MSDS

POTASSIUM DICHROMATE Aqueous Solutions, < 1% (w/v), < 0.204 Normal (0.034 Molar), HEXAVALENT CHROMIUM
STANDARD

- Rev 1, 9-8-2000: Reformatted from WordPerfect® to Microsoft Word®; (Section 1) Revised emergency telephone number to CHEMTREC® 800-424-9300, added catalog numbers 6056 and 6062; (Section 4) changed do not induce to induce vomiting; (Section 11) added dermal citation; (Section 12) added ecotoxicological information and chromium chemical fate information; (Section 16) revised health ratings from 1 to 2.
- Rev 2, 10-09-2001: Reformatted to electronic data format.
- Rev 3, 03-06-2002: (Section 1) added catalog number 6064.
- Rev 4, 03-12-2002: (Section 1) added Hexavalent Chromium Standard to title, added catalog number 2095.
- Rev 5, 9-20-2002: (Section 1) added Solutions Plus brand catalog number P070080.
- Rev 6, 03-18-2003: (Section 1) added Solutions Plus catalog number P070020.
- Rev 7, 04-22-2003: (Section 1) added Solutions Plus catalog number P070100.
- Rev 8, 08-28-2003: (Section 1) removed Solutions Plus catalog number P070020.
- Rev 9, 12-05-2003: (Section 1) added catalog numbers R6086100 and R6086250.
- Rev 10, 08-04-2004: (Section 1) added catalog number ACR61KW.
- Rev 11, 02-23-2005: (Section 1) added internal part numbers M0010055 and M0010056.
- Rev 12, 01-18-2006: (Section 1) added SpectroPure catalog number S2360000.
- Rev 13, 03-30-2006: (Section 1) added Red Bird catalog number PX-1071.
- Rev 14, 02-09-2007: (Section 1) added catalog number R6041500.
- Rev 15, 03-26-2007: (Section 1) added Red Bird catalog number P-301.
- Rev 16, 05-02-2007: (Section 1) added Red Bird catalog number P-305.
- Rev 17, 05-22-2007: (Section 1) added catalog numbers R6086200, R6086400, R6087100, R6087300 and R6087500.

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.