



Safety Data Sheet

1. IDENTIFICATION

Product Identifier:	Potassium Chromate Solution, 1.0-7.5% w/w (0.1N)
Product Code(s):	P1035, P1084, CF1175
Synonyms:	Chromate of Potash Solution; Dipotassium Chromate Solution.
Recommended Use:	For manufacturing, industrial, and laboratory use only. For use as a catalyst or as a laboratory reagent.
Uses Advised Against:	Not for food, drug, or household use.
Supplier:	Rocky Mountain Reagents, Inc. 4621 Technology Drive, Golden, CO 80403 Phone: (303) 762-0800 Fax: (303) 762-1240
Emergency Phone Number:	(800) 255-3924 (CHEM-TEL)

2. HAZARDS IDENTIFICATION

Hazard Classifications:	Sensitization – Skin: Germ Cell Mutagenicity: Carcinogenicity:	Category 1B Category 1B Category 1B
Signal Word:	DANGER	
Hazard Statements:	May cause allergic skin re May cause genetic defect May cause cancer.	

Pictograms:



Precautionary Statements:

Prevention:

Avoid breathing fumes, mists, vapors, or spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves, protective clothing, eye protection, and face protection. Obtain special instructions before reuse.

	Do not handle until all safety instructions have been read and understood.	
Response:	If exposed or concerned: Get medical attention. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.	
Storage:	Store locked up.	
Disposal:	Dispose of contents and container in accordance with local, regional, national, and international regulations.	
Hazards Not Otherwise Classified:	May be toxic to aquatic life.	
Toxicity Statement:	Not applicable.	

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	Common Name / Synonyms	CAS#	Chemical Formula	% by Weight
Water	Water	7732-18-5	H ₂ O	92.5 - 99.0
Potassium Chromate	Chromate of Potash	7789-00-6	K ₂ CrO ₄	1.00 – 7.50

Trade Secret Statement:

Not applicable.

4. FIRST AID MEASURES

First Aid Procedures:

Inhalation:	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Ingestion:	Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep head low so that vomit does not enter lungs. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
Skin Contact:	Wash skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.
Eye Contact:	Check for and remove contact lenses. Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention if symptoms occur.
General Advice:	Poison information centers in each state can provide additional assistance for scheduled poisons. Ensure that medical personnel and those providing first aid are aware of the material(s) involved and take precautions to protect themselves.
Symptoms and Effects:	Irritation, burns, headache, nausea, vomiting, diarrhea, sore throat, itchiness, abdominal pain, fever, blurred vision, difficulty breathing, intense thirst. May be harmful if swallowed, inhaled, or absorbed through the skin. May cause irritation to the eyes, skin, respiratory tract, and gastrointestinal tract. May affect the respiratory system, mucous membranes, central nervous system, and gastrointestinal tract. Prolonged or repeated exposure may affect the kidneys, liver, bones, lungs, genetic material, skin, and eyes; may cause allergic reactions and cancer.
Immediate Medical Care/ Special Treatment:	Call a doctor or poison control center immediately if you feel unwell or are concerned. Treat symptomatically. Symptoms may be delayed.

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media:	Water spray, dry powder, alcohol resistant foam, carbon dioxide.
Unsuitable Extinguishing Media:	Do not use a solid (straight) water stream, as it may scatter and spread fire.
Hazardous Combustion Products:	Potassium oxides, chromium oxides, toxic fumes.
Specific Hazards:	May decompose upon heating to produce corrosive and/or toxic fumes.
Special Protective Equipment/ Precautions for Firefighters:	As in any fire, wear MSHA/NIOSH-approved (or equivalent), self-contained, positive- pressure or pressure-demand breathing apparatus and full protective gear. In the event of

fire and/or explosion, do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Protective Equipment:	Isolate hazard area and keep unnecessary and unprotected personnel away from the area of the leak or spill. Wear appropriate personal protective equipment (see Section 8). Avoid contact with eyes, skin, and clothing.
Emergency Procedures:	In case of chemical emergency, or if unsure how to address an accidental release, consult a professional (see Section 1).
Methods for Containment:	Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements, or confined areas. Dike the spilled material, where this is possible. Product should not be released to the environment. Contain and recover liquid when possible.
Methods for Cleanup:	Absorb spill with an inert material (e.g. vermiculite, dry sand, earth, cloth, or fleece) and place in a non-combustible container for reclamation or disposal. Do not flush to sewer. Clean contaminated surface thoroughly. Residues from spills can be diluted with water. Never return spills in original containers for reuse. Clean up in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Handling:	Wear personal protective equipment (see Section 8). Provide sufficient air exchange and/or exhaust in work areas. Avoid contact with skin, eyes, clothing, and combustible materials. Do not breathe vapors or spray mist. Do not ingest. When using, do not eat, drink, or smoke. Keep away from incompatible materials (see Section 10). Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Containers of this material may be hazardous when empty, as they retain product residues. Observe all warnings and precautions listed for this product.
Storage:	Store in a cool, dry, ventilated area. Store in a segregated and approved area away from incompatible materials (see Section 10). Store in original container. Keep containers tightly

incompatible materials (see Section 10). Store in original container. Keep containers tightly closed and upright. Keep away from food, drink, and animal foodstuffs. Keep out of the reach of children. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of this product.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:

Water:

No information found.

	Potassium Chromate:	ACGIH (TLV): OSHA (PEL): NIOSH (REL):	0.05 mg/m ³ 0.005 mg/m ³ 0.001 mg/m ³
Engineering Controls:	applicable, use process e	nclosures, local ex s below recommer	es should be matched to conditions. If khaust ventilation, or other engineering controls nded exposure limits. If exposure limits have not o an acceptable level.
Personal Protective Measures:			
Eye/Face Protection:	Wear safety glasses with accessible rinse facilities	-	ggles. Maintain approved eye wash station and
Skin Protection:	Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical resistant gloves.		
Respiratory Protection:	permissible under certain exceed exposure limits. L potential for an uncontroll	circumstances wh Jse a positive-pres ed release, if expo	r with appropriate cartridge or canister may be here airborne concentrations are expected to sure, air-supplied respirator if there is any osure levels are unknown, or if any other pirators may not provide adequate protection.
Specific Requirements for Personal Protective Equipment:	Ensure that glove materia glove manufacturers.	al is compatible wit	h this product. This information is available from

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, yellow, transparent liquid.
Odor:	Odorless.
Odor Threshold:	No information found.
Formula Weight:	194.19 as potassium chromate
pH:	8.5 – 10.0 (50 g/L aqueous at 20 °C)
Melting/Freezing Point:	No information found.
Boiling Point/Range:	No information found.
Decomposition Temperature:	No information found.
Flash Point:	Not applicable.
Auto-ignition Temperature:	Not applicable.
Flammability:	Not applicable.
Flammability/Explosive Limits:	Not applicable.
Solubility:	Miscible with water.
Vapor Pressure:	No information found.
Vapor Density:	No information found.
Specific Gravity:	1.01 – 1.06 (Water = 1)
Evaporation Rate:	No information found.
Viscosity:	No information found.

10. STABILITY AND REACTIVITY

Reactivity Data:	No information found.
Chemical Stability:	Stable under normal conditions.
Conditions to Avoid:	Incompatible materials.
Incompatible Materials:	Oxidizers, organic materials, metals.
Hazardous Decomposition Products:	Potassium oxides, chromium oxides.
Possibility of Hazardous Reactions:	May react vigorously or violently if exposed to extreme thermal conditions or to the incompatible materials listed above. May decompose upon heating to produce corrosive and/or toxic fumes.
Hazardous Polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure:	Inhalation, ingestion, skin contact, eye contact.		
Acute Effects:	May be harmful if swallowed, inhaled, absorbed through the skin, or exposed to the eyes. May cause irritation to the eyes, skin, respiratory tract, and gastrointestinal tract. May affect the respiratory system, mucous membranes, central nervous system, and gastrointestinal tract.		
Chronic Effects:	Prolonged or repeated exposure may affect the kidneys, liver, bones, lungs, genetic material, skin, and eyes; may cause allergic reactions and cancer.		
Toxicological Data:	Water:	Not applicable.	
	Potassium Chromate:	LD ₅₀ Oral, Mouse: 180 mg/kg May cause mutagenic and sensitization effects based on animal data.	
Symptoms of Exposure:	Irritation, burns, headache, nausea, vomiting, diarrhea, sore throat, itchiness, abdominal pain, fever, blurred vision, difficulty breathing, intense thirst.		
Carcinogenic Effects:	This product may cause cancer.		
IARC:	Potassium Chromate:	Group 1 – Carcinogenic to humans	
ACGIH:	Potassium Chromate:	A1 – Confirmed human carcinogen	
NTP:	Potassium Chromate:	Known to be a human carcinogen	
OSHA:	Potassium Chromate:	Specifically regulated carcinogen	

12. ECOLOGICAL INFORMATION

Ecotoxicological Data:	Water:	
	Not applicable.	
	Potassium Chromate:	
	EC ₅₀ , Water Flea (Daphnia magna): 15 mg/L 48 h	
	LC ₅₀ , Fathead Minnow (Pimephales promelas): 40 mg/L 96 h	
Persistence and Degradability:	No information found.	
Environmental Effects:	May be toxic to aquatic organisms. Avoid release to the environment.	
13. DISPOSAL INFOR	RMATION	
Disposal Instructions:	All wastes must be handled in accordance with local, state, and federal regulations. Minimize exposure to product waste (see Section 8). Do not dispose unused waste down drains or into sewers.	
Contaminated Packaging:	Because emptied containers retain product residue, follow label warnings even after container is emptied. Offer rinsed packaging material to local recycling facilities.	
Waste Codes:	No information found.	
14. TRANSPORT INF	ORMATION	
DOT:	Not regulated.	
Environmental Hazard Regulations:	Potassium Chromate: Regulated as a marine pollutant by IMDG.	
Other Transport Precautions:	DOT Reportable Quantity: Potassium Chromate: 10 lb	
15. REGULATORY INFORMATION		
U.S. Federal Regulations:		
U.S. Federal Regulations: OSHA:	This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
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OSHA:	Communication Standard, 29 CFR 1910.1200.	

Sections 311/312:	Hazard Category	List (Yes/No)
	Section 311 – Hazardous Chemical	Yes
	Immediate Hazard	Yes
	Delayed Hazard	Yes
	Fire Hazard	No
	Pressure Hazard	No
	Reactivity Hazard	No

Section 313: Potassium Chromate

CERCLA Reportable Quantities: No information found.

International Inventories:

Country or Region	Inventory Name	On Inventory (Yes/No)*
Australia	Australian Inventory of Chemical Substances (AICS)	N/A
Canada	Domestic Substances List (DSL)	N/A
Canada	Non-Domestic Substances List (NDSL)	N/A
China	Inventory of Existing Chemical Substances in China (IECSC)	N/A
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	N/A
Europe	European List of Notified Chemical Substances (ELINCS)	N/A
Japan	Inventory of Existing and New Chemical Substances (ENCS)	N/A
Korea	Existing Chemicals List (ECL)	N/A
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	N/A

*A "Yes" indicates that the listed component(s) of this product comply with the inventory requirements administered by the governing country(s).

16. OTHER INFORMATION

Disclaimer:	Rocky Mountain Reagents, Inc. provides the information in this Safety Data Sheet in the belief that it is reliable but assumes no responsibility for its completeness or accuracy. The physical properties reported in this SDS are obtained from literature and do not constitute product specifications. Rocky Mountain Reagents, Inc. makes and gives no representations or warranties with respect to the information contained herein or the product to which it refers, whether express, implied, or statutory, including without limitation, warranties of accuracy, completeness, merchantability, non-infringement, performance, safety, suitability, stability, and fitness for a particular purpose. No warranty against infringement of any patent, copyright or trademark is made or implied. This SDS is intended only as a guide to the appropriate handling of the material by a properly trained person. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. Accordingly, Rocky Mountain Reagents, Inc. assumes no liability whatsoever for the use of or reliance upon this information including results obtained, incidental or consequential damages, or lost profits.
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