Material Safety Data Sheet

Potassium Dichromate (RXSOL-60-6112-500)

1. Product and Company Identifaction

Product Name	Potassium DiChromate
Product Type	RXSOL-60-6112-500

Company Details:
RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Phone	+91 22 27815540 / 41 / 42
Fax	+91 22 2781 1318 :::AOH :00919821214367
Email	mail@rxmarine.com

2. Composition / informationon ingredients

Ingredient	CAS No	Percent	Hazardous
Potassium Di Chromate	7778-50-9	99 - 100 %	Yes

3. Hazards Identification

Potential Health Effects:

Inhalation:	Corrosive. Extremely destructive to tissues of the mucous membranes and upper respiratory tract. May cause ulceration and perforation of the nasal septum. Symptoms may include sore throat, coughing, shortness of breath, and labored breathing. May produce pulmonary sensitization or allergic asthma. Higher exposures may cause pulmonary edema.
Ingestion:	Corrosive. Swallowing can cause severe burns of the mouth, throat, and stomach, leading to death. Can cause sore throat, vomiting, diarrhea. May cause violent gastroenteritis, peripheral vascular collapse, dizziness, intense thirst, muscle cramps, shock, coma, abnormal bleeding, fever, liver damage and acute renal failure.
Skin Contact:	Corrosive. Symptoms of redness, pain, and severe burn can occur. Dusts and strong solutions may cause severe irritation. Contact with broken skin may cause ulcers (chrome sores) and absorption, which may cause systemic poisoning, affecting kidney and liver functions. May cause skin sensitization.
Eye Contact:	Corrosive. Contact can cause blurred vision, redness, pain and severe tissue burns. May cause corneal injury or blindness.
Chronic Exposure:	Repeated or prolonged exposure can cause ulceration and perforation of the nasal septum, respiratory irritation,liver and kidney damage and ulceration of the skin. Ulcerations at first may be painless, but may penetrate to the bone producing "chrome holes." Known to be a human carcinogen.
Aggravation of Pre-existing Conditions:	Persons with pre-existing skin disorders, asthma, allergies or known sensitization to chromic acid or chromates may be more susceptible to the effects of this material.

4. First Aid Measures

Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion:	If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Skin Contact:	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally.Get medical attention immediately.

5. Fire-fighting Measures

Fire:	Not combustible, but substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Releases oxygen, upon decomposition, which enhances combustion.
Explosion:	Contact with oxidizable substances may cause extremely violent combustion. Becomes a possible explosion hazard when shocked, heated, or exposed to hydrazine.
Fire Extinguishing Media:	Flood with large amounts of water. Water spray may be used to keep fire exposed containers cool. Do not allow water runoff to enter sewers or waterways.
Special Information:	In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section8.

Spills:

Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

7. Handling and Storage

Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Do not store on wooden floors. Wear special protective equipment (Sec. 8) for maintenance break-in or where exposures may exceed established exposure levels. Wash hands, face, forearms and neck when exiting restricted areas. Shower, dispose of outer clothing, change to clean garments at the end of the day. Avoid cross-contamination of street clothes. Wash hands before eating and do not eat, drink, or smoke in workplace. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure controls and personal protection

Airborne Exposure Limits:	OSHA Permissible Exposure Limit (PEL): For chromic acid and chromates, as CrO3 = 0.1 mg/m3 (ceiling) ACGIH Threshold Limit Value (TLV): For water-soluble Cr(VI) compounds, as Cr = 0.05 mg/m3 (TWA), A1 - confirmed human carcinogen.
Ventilation System:	A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.
Personal Respirators (NIOSH Approved):	If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator(NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier,whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.
Skin Protection:	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Eye Protection:	Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and chemical properties

Appearance:	Yellow crystals.

Odor:	Odorless.
Solubility:	69.9g/100 g water @ 20C (68F).
Density:	2.73
pH:	Aqueous soln. is alkaline to litmus.
% Volatiles by volume @ 21C (70F):	0
Boiling Point:	No information found.
Melting Point:	975C (1787F)
Vapor Density (Air=1):	6.7
Vapor Pressure (mm Hg):	6.7
Evaporation Rate (BuAc=1):	No information found.

10. Stability and reactivity

Stability:	Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products:	Burning may produce chrome oxides.
Hazardous Polymerization:	Will not occur.
Incompatibilities:	Reducing agents, hydrazine, and flammable materials. Any combustible, organic or other readily oxidizable material (paper, wood, sulfur, aluminum or plastics).
Conditions to Avoid:	Heat, incompatibles.

11. Toxicological information

Oral rat LD50:
180 mg/kg. Investigated as a tumorigen, mutagen, reproductive effector.
NTP Carcinogen

Ingredient	Known	Anticipated	IARC Category
Potassium Chromate(7789-00-6)	Yes	No	1

12. Ecological information

Environmental Fate:

When released into the soil, this material may leach into groundwater. When released into water, this material is not expected to evaporate significantly. This material may bioaccumulate to some extent. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition.

Environmental Toxicity:

Dangerous to the environment. Very toxic to aquatic organisms; may cause long term adverse effects in the aquatic environment.

13. Disposal considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport information

Domestic (Land, D.O.T.):

Proper Shipping Name:	RQ, OXIDIZING SOLID, CORROSIVE, N.O.S. (POTASSIUM CHROMATE)
Hazard Class:	5.1, 8

UN/NA:	UN3085
Packing Group:	III
Information reported for product/size:	375LB

International (Water, I.M.O.):

Proper Shipping Name:	OXIDIZING SOLID, CORROSIVE, N.O.S. (POTASSIUM CHROMATE)
Hazard Class:	5.1, 8
UN/NA:	UN3085
Packing Group:	III
Information reported for product/size:	375LB

15. Regulatory information

Chemical Inventory Status - Part 1:

Ingredient	TSCA	EC	Japan	Australia
Potassium Chromate (7789-00-6)	Yes	Yes	Yes	Yes

Chemical Inventory Status - Part 2:
Canada:

Ingredient	Korea	DSL	NDSL	Phil.
Potassium Chromate (7789-00-6)	Yes	Yes	No	Yes

Federal, State & International Regulations - Part 1:
-SARA 302- SARA 313

Ingredient	RQ	TPQ	List	Chemical Catg.
Potassium Chromate (7789-00-6)	No	No	No	Chromium com

Federal, State & International Regulations - Part 2:

Ingredient	CERCLA	RCRA- 261.33	TSCA 8(d)
Potassium Chromate (7789-00-6)	10	No	No

-RCRA- -TSCAIngredient:
CERCLA 261.33 8(d):

Chemical Weapons Convention:	No
TSCA 12(b):	Yes
CDTA:	Yes
SARA 311/312: Acute:	Yes
Chronic:	Yes
Fire:	Yes
Pressure:	No
Reactivity:	Yes (Pure / Solid)

WARNING:
THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.
Australian Hazchem Code: None allocated.
Poison Schedule: S6

WHMI :
This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other information

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.