

## 1. Product and Company Identification

[www.rxmarine.com](http://www.rxmarine.com)

Product Name **Potassium Chromate**

Product Type **RXSOL-60-6112-020**

### Company Details:

RX MARINE INTERNATIONAL

105, A wing , BSEL , TECH PARK.

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Email [mail@rxmarine.com](mailto:mail@rxmarine.com)

## 2. Composition / Information on ingredients

[www.rxmarine.com](http://www.rxmarine.com)

Ingredient	CAS No	Percent	Hazardous
Potassium Chromate	7789-00-6	99 - 100 %	Yes

## 3. Hazards Identification

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### Potential Health Effects:

Inhalation:

Corrosive. Extremely destructive to mucous membranes and upper respiratory tract. May cause ulceration and perforation of the respiratory tract. Symptoms may include sore throat, difficulty breathing, and labored breathing. May cause pulmonary sensitization or asthma. Repeated exposures may cause pulmonary edema.

Ingestion:

Corrosive. Swallowing can cause severe irritation of the mouth, throat, and stomach, leading to sore throat, vomiting, diarrhea, and gastroenteritis, peripheral vascular disease, intense thirst, muscle cramps, and bleeding, fever, liver damage and kidney damage.

Skin Contact:

Corrosive. Symptoms of redness and irritation.

Eye Contact:

can occur. Dusts and strong so  
irritation. Contact with broken  
(chrome sores) and absorpt  
systemic poisoning, affecting k  
May cause skin sensitization.

Chronic Exposure:

Corrosive. Contact can cause  
pain and severe tissue burns. M  
blindness.

Aggravation of Pre-existing Conditions:

Repeated or prolonged expos  
and perforation of the na  
irritation,liver and kidney dam  
skin. Ulcerations at first ma  
penetrate to the bone producing  
to be a human carcinogen.

Persons with pre-existing s  
allergies or known sensitizat  
chromates may be more suscep  
material.

#### 4. First Aid Measures

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Inhalation:

Remove to fresh air. If not  
respiration. If breathing is dif  
medical attention immediately.

Ingestion:

If swallowed, DO NOT IND  
large quantities of water. Neve  
to an unconscious person.  
immediately.

Skin Contact:

Immediately flush skin with pl  
15 minutes while removing co  
shoes. Get medical attention im  
before reuse. Thoroughly clean

Eye Contact:

Immediately flush eyes with pl  
15 minutes, lifting lower  
occasionally. Get medical attent

## 5. Fire-fighting Measures

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Fire:

Not combustible, but substance releases heat of reaction with reducing agents which may cause ignition. Releases toxic gases on decomposition, which enhances fire hazard.

Explosion:

Contact with oxidizable substances may cause violent combustion. Becomes more sensitive when shocked, heated, or exposed to light.

Fire Extinguishing Media:

Flood with large amounts of water. Water is used to keep fire exposed containers cool. Avoid 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 continuous flow or other positive pressure mode.

## 6. Accidental Release Measures

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

**Spills:**

Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may increase dispersal. US Regulations (CERCLA) require reporting spills and releases to soil, water, or air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is 1-800-424-8801.

## 7. Handling and Storage

[www.rxmarine.com](http://www.rxmarine.com)

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

Airborne Exposure Limits:

OSHA Permissible Exposure Limit  
For chromic acid and chromates  
(ceiling)

ACGIH Threshold Limit Value  
For water-soluble Cr(VI) compounds  
mg/m<sup>3</sup> (TWA), A1 - confirmed

Ventilation System:

A system of local and/or general  
recommended to keep employee exposure  
Airborne Exposure Limits. Local exhaust  
generally preferred because it captures  
of the contaminant at its source and  
of it into the general work area.  
ACGIH document, Industrial Ventilation  
Recommended Practices, more  
details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and  
controls are not feasible, a high efficiency  
respirator (NIOSH type N95 or higher)  
worn for up to ten times the  
maximum use concentration  
appropriate regulatory agency  
whichever is lowest. A full-face  
respirator (NIOSH type N100) filters  
50 times the exposure limit,  
concentration specified by the  
agency, or respirator supplier, when  
particles (e.g. lubricants, cutting  
are present, use a NIOSH type  
emergencies or instances where  
not known, use a full-facepiece  
supplied respirator. **WARNING:**  
respirators do not protect workers in  
atmospheres.

Skin Protection:

Wear impervious protective clothing  
gloves, lab coat, apron or coveralls

Eye Protection:

prevent skin contact.

Use chemical safety goggles where dusting or splashing occurs. Maintain eye wash fountain and shower in work area.

## 9. Physical and chemical properties

[www.rxmarine.com](http://www.rxmarine.com)

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

[www.rxmarine.com](http://www.rxmarine.com)

Stability:

Stable under ordinary conditions.

Hazardous Decomposition Products:

Burning may produce chromium oxides.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Reducing agents, hydrazine, and organic peroxides. Any combustible, organic or inorganic material (paper, wood, sulfur, and carbon).

Conditions to Avoid:

Heat, incompatibles.

## 11. Toxicological information

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**Oral rat LD50:**

180 mg/kg. Investigated as a tumorigen, mutagen, reproductive effector.

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## NTP Carcinogen

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

### 12. Ecological information

[www.rxmarine.com](http://www.rxmarine.com)

#### Environmental Fate:

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

#### Environmental Toxicity:

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

### 13. Disposal considerations

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

### 14. Transport information

[www.rxmarine.com](http://www.rxmarine.com)

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

Proper Shipping Name:	RQ, OXIDIZING SOLID, CORROSIVE (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
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(POTASSIUM CHROMATE)

Hazard Class: 5.1, 8  
UN/NA: UN3085  
Packing Group: III  
Information reported for product/size: 375LB

**15. Regulatory information**

[www.rxmarine.com](http://www.rxmarine.com)

**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 con

**Federal, State & International Regulations - Part 2:**

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

**-RCRA- -TSCAIngredient:**

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**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

WHM  
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This MSDS has been prepared according to the hazard criteria of the Controlled Products Act. The MSDS contains all of the information required by the CPR.

**16. Other information**

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The data given here is based on current knowledge and experience. This Safety Data Sheet is given in terms of safety requirements and does not signify any warranty with regard to the product. The information given here only applies when product used for proper application(s). The product is not intended for other applications usage in such may cause risks not mentioned in this sheet. Do not use for other purposes. Seeking advice from manufacturer.

**DISCLAIMER OF LIABILITY** :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without warranty regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. We do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.