

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	<b>Potassium Dichromate</b>
Manufacturer	Sentury Reagents, Inc. 2515 Commerce Dr. Rock Hill, SC 29730
Telephone	803-327-6880
Fax	803-327-3872
Emergency Phone # and International	PERS: 800-633-8253 ACCT: 10613 011-801-629-0667

**2. HAZARDS IDENTIFICATION**

## Emergency Overview

**OSHA Hazardous**

Oxidizing Solid, Carcinogen, Target Organ Effect, Toxic by ingestion, Skin sensitizer, Irritant, Mutagen

**Target Organs:** Lungs, Kidney, Liver, Blood, Skin, Eyes**Signal Words:** DANGER**Classification**

Oxidizing Solid 2, Skin Corrosion/Irritation Category 1B Germ Cell Mutagenicity Category 1B Carcinogenicity Category 1B Reproductive Toxicity Category 1B Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 1 Hazardous to the aquatic environment - Chronic Category 1 Acute Toxicity - Inhalation Dust / Mist Category 2 Acute Toxicity - Inhalation Vapor Category 2 Acute Toxicity - Inhalation Gas Category 2 Acute Toxicity - Oral Category 3 Acute Toxicity - Dermal Category 4, Eye Damage/Irritation 1

**GH3 Label elements, including precautionary statements**

Pictogram



Signal word Danger

**Hazard statement(s)**

H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H310 + H330	Fatal in contact with skin or if inhaled
H314	Causes severe skin burns and eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H340	May cause genetic defects.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.
H410	Very toxic to aquatic life with long lasting effects.

**Precautionary statement(s)**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat.
P220	Keep/Store away from clothing/ combustible materials.
P221	Take any precaution to avoid mixing with combustibles.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284	Wear respiratory protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/ physician.
P320	Specific treatment is urgent (see supplemental first aid instructions on this label).
P361	Remove/Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

**Other Safety Precautions:** IF exposed or concerned: Get medical advice/attention.

**Hazards not otherwise classified (HNOC) or not covered by GHS - none**

HMIS Classification		NFPA Rating	
Health hazard:	3	Health hazard:	3
Fire	0	Fire:	0
Reactivity	2	Reactivity Hazard:	0
Personal	E	Special hazard:	OX

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	Weight %	CAS #
Potassium Dichromate	100	7778-50-9

**4. FIRST AID MEASURES**

**Inhalation:** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

**Eyes:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Skin Contact:** IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.

**Ingestion:** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Use dry chemical, CO2 or appropriate foam.

### Special protective equipment for firefighters

Fire fighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

### Fire and/or Explosion Hazards

Fire or excessive heat may produce hazardous decomposition products. Substance is an oxidizer.

### Hazardous Combustion Products

Carbon dioxide, Carbon monoxide

## 6. ACCIDENTAL RELEASE MEASURES

### Steps to Take in Case Material Is Released or Spilled

No adverse health effects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this MSDS.

No special spill clean-up considerations. Collect and discard in regular trash. Collect spillage.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. Wear respiratory protection. In case of inadequate ventilation wear respiratory protection. Keep container tightly closed in a cool, well-ventilated place.

### Conditions for safe storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Chemical Name</u>	<u>(TWA)</u>	<u>ACGIH</u>		<u>OSHA PEL</u>	
		<u>(STEL)</u>		<u>(TWA)</u>	<u>(STEL)</u>
Potassium Dichromate	0.05 mg/m <sup>3</sup>	N/A		5 µg/m <sup>3</sup> TWA	N/A
Control Parameters	TWA (as Cr)				

**Engineering Measures:** No exposure limits exist for the constituents of this product. No engineering controls are likely to be required to maintain operator comfort under normal conditions of use.  
Lab coat, apron, eye wash, safety shower.

### Personal Protective Equipment (PPE)

Lab coat, apron, eye wash, safety shower.

### Respiratory Protection:

No respiratory protection required under normal conditions of use.

### Skin Protection

Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

### Gloves

No information available

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Formula:** K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub>

**Molecular Weight:** 294.19

**Appearance:** Odorless orange-red solid.

**Odor:** None

**Odor Threshold:** ND **pH:** No data available **Melting Point:** 398°C **Flash Point:** N/A

**Evaporation Rate (BuAc=1):** N/A

**Flammable Limits in Air:** N/A

**Vapor Pressure:** N/A

**Vapor Density (Air=1):** N/A

**Specific Gravity (H<sub>2</sub>O=1):** 2.676 at 25°C

**Solubility in Water:** 45g/L

**Log Pow (calculated):** No data available **Autoignition Temperature:** N/A **Decomposition Temperature:** N/A

**Viscosity:** No data available

**Percent Volatile by Volume:** 0%

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## 10. STABILITY AND REACTIVITY

**Reactivity:** No data available  
**Chemical Stability:** Stable under normal conditions.  
**Conditions to Avoid:** None known.  
**Hazardous Polymerization:** Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

**Routes of Entry** Inhalation, ingestion, eye or skin contact.

**Symptoms (Acute):** Respiratory disorders

**Delayed Effects:** N/A

### Acute Toxicity:

#### Chemical Name

#### CAS Number Oral LD50

#### Dermal LD50

#### Inhalation LC50

Potassium Dichromate

7778-50-9

ORAL LD50  
RAT 25  
MG/KG

DERMAL LD50 NA  
RABBIT 14  
MG/KG

### Chronic Effects:

**Mutagenicity:** Evidence of a mutagenic effect.

**Teratogenicity:** No evidence of a teratogenic effect (birth defect).

**Sensitization:** Evidence of a sensitization effect.

**Reproductive:** Evidence of negative reproductive effects.

### Target Organ Effects:

**Acute:** See Section 2

**Chronic:** Listed by NTP, IARC as causing cancer. Mutation data cited. Tumorigenic data cited. Reproductive data cited. May cause sensitisation by inhalation and skin contact.

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## 12. ECOLOGICAL INFORMATION

**Overview:** Severe ecological hazard. This product may be toxic to plants and/or wildlife.  
**Mobility:** No data  
**Persistence:** No data  
**Bioaccumulation:** No data  
**Other Adverse Effects:** No data available

### Chemical Name

Potassium Dichromate

### CAS Number

7778-50-9

### ECO Toxicity

96 HR LC50 MORONE SAXATILIS 26 MG/L [STATIC]  
(FINGERLING)

96 HR LC50 CYPRINUS CARPIO 139 MG/L  
[STATIC]  
96 HR LC50 LEPOMIS MACROCHIRUS 320 MG/L

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### 13. DISPOSAL CONSIDERATIONS

**Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

**Waste Disposal Code(s):** Not Determined

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### 14. TRANSPORT INFORMATION

**DOT (US)**

UN number: 3288      Class: 6.1      Packing group: III  
Proper shipping name: Toxic solid, inorganic, n.o.s. (Potassium Dichromate)  
Pollutant: No  
Poison Inhalation Hazard: No

**IMDG**

UN number: 3288      Class: 6.1      Packing group: III  
Proper shipping name: Toxic solid, inorganic, n.o.s. (Potassium Dichromate)  
Pollutant: No

**IATA**

UN number: 3288      Class: 6.1      Packing group: III  
Proper shipping name: Toxic solid, inorganic, n.o.s. (Potassium Dichromate)

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### 15. REGULATORY INFORMATION

**TSCA Status:** All components in this product are on the TSCA Inventory.

<b>Chemical Name</b>	<b>CAS No.</b>	<b>§ 313 Name</b>	<b>§ 304 RQ</b>	<b>CERCLA RQ</b>	<b>§ 302 TPQ</b>	<b>CAA 112(2) TQ</b>
	<b>7778-50-9</b>	<b>No</b>	<b>10lb RQ</b>	<b>10 lb final RQ; 4.54 kg final RQ</b>	<b>No</b>	<b>No</b>

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### 16. OTHER INFORMATION

Further information:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sentury Reagents, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product.