



Safety Data Sheet

Revised 12/16/15

Potassium Chromate

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Potassium Chromate

CAS # 7789-00-6

Manufacturer: Sentury Reagents, Inc
2515 Commerce Drive
Rock Hill, SC 29730

Telephone: 803-327-6880

Fax: 803-327-3872

In Case of Emergency Call: PERS: 800-633-8253 International: 011-801-629-0667
Acct. 10613 24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

OSHA Hazards: Carcinogen, Target Organ Effect, Toxic by ingestion, Skin sensitizer, Irritant, Mutagen

Target Organs: Lungs, Kidney, Liver, Blood, Skin, Eyes

Signal Word: Danger

Pictograms:



GHS

Classification:

Acute toxicity, Oral	Category 3
Skin irritation	Category 2
Eye irritation	Category 2A
Skin sensitization	Category 1
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1B
Specific target organ toxicity - single exposure	Category 3
Acute aquatic toxicity	Category 1

GHS Label Elements, including precautionary statements:**Hazard Statements:**

H301	Toxic if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H340	May cause genetic defects.
H350	May cause cancer.
H400	Very toxic to aquatic life.

Precautionary Statements:

P201	Obtain special instructions before use.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/ attention.

Potential Health Effects

Eyes	Causes eye irritation.
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Ingestion	Toxic if swallowed.

NFPA Ratings

Health	3
Flammability	0
Reactivity	0
Specific hazard	Not Available

HMIS Ratings

Health	3
Fire	0
Reactivity	0
Personal	E

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS #	EINECS# / ELINCS#	Formula	Molecular Weight
Potassium Chromate	90-100	7789-00-6	232-140-5	K ₂ CrO ₄	194.20 g/mol

4. FIRST-AID MEASURES

Eyes	In case of eye contact, rinse with plenty of water and seek medical attention immediately.
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
Skin	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention immediately.
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media	Product is not flammable. Use appropriate media for adjacent fire. Cool containers with water.
Special protective equipment and precautions for firefighters	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
Specific hazards arising from the chemical	Emits toxic fumes (potassium oxides, chromium oxides) under fire conditions. (See also Stability and Reactivity section).

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and place in suitable, closed containers for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts.

Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls:

Component	Exposure Limits	Basis	Entity
Potassium Chromate	0.001 mg/m ³	REL	NIOSH

TWA: Time Weighted Average over 8 hours of work. TLV:

Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit PEL:

Permissible Exposure Limit
 STEL: Short Term Exposure Limit during x minutes.
 IDLH: Immediately Dangerous to Life or Health
 WEEL: Workplace Environmental Exposure Levels
 CEIL: Ceiling

Personal Protection

Eyes	Wear chemical safety glasses or goggles.
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
Skin	Wear nitrile or rubber gloves, apron or lab coat.
Other	Not Available

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Lemon-Yellow Crystals
Odor	Odorless.
Odor threshold	Not Available
pH	8.5 - 10.0 at 50 g/l at 20°C (68°F)
Melting point/freezing point	975°C (1787°F)
Initial boiling point and boiling range	Not Available
Flash point	Not Flammable
Evaporation rate	Not Available
Flammability (solid, gas)	Not Flammable
Upper/lower flammability or explosive limit	Not Explosive
Vapor pressure	Not Available
Vapor density	Not Available
Density	2.73 (Water = 1)
Solubility (ies)	Appreciable (10%)
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Not Available
Incompatible Materials	Combustible materials, strong reducing agents.
Hazardous Decomposition Products	Potassium oxides, chromium oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Skin	Not Available
Eyes	Not Available
Respiratory	Not Available
Ingestion	LD50 Oral - mouse - 180 mg/kg

Carcinogenicity

IARC	1 - Group 1: Carcinogenic to humans (Potassium chromate).
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ACGIH	A1: Confirmed human carcinogen (Potassium chromate).
NTP	Known to be human carcinogen (Potassium chromate).
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure

Skin	Irritation, redness, burns.
Eyes	Severe irritation, blurred vision, redness, pain and possible eye burns.
Respiratory	Destructive to the tissues of the mucous membrane and the upper respiratory tract, severe irritation of the upper respiratory tract, mucous membranes, with pain, burns, and inflammation.
Ingestion	sore throat, nausea, vomiting, diarrhea, violent gastroenteritis, peripheral vascular collapse, dizziness, intense thirst, muscle cramps, shock, abnormal bleeding, fever, liver damage, kidney damage.

Chronic Toxicity	May cause damage to the following organs: kidneys, lungs, liver, upper respiratory tract, skin, eyes.
Teratogenicity	Not Available
Mutagenicity	Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.
Embryotoxicity	Not Available
Specific Target Organ Toxicity	Not Available
Reproductive Toxicity	Not Available
Respiratory/Skin Sensitization	Not Available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate	LC50 - Pimephales promelas (fathead minnow) - 40 mg/l - 96.0 h
Aquatic Invertebrate	EC50 - Daphnia magna (Water flea) - 15 mg/l - 48 h
Terrestrial	EC50 - Nitzschia sp. - 0.26 mg/l - 72 h

Persistence and Degradability	Not Available
Bioaccumulative Potential	Not Available
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

Waste Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.
Product Containers	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. TRANSPORTATION INFORMATION

US DOT	UN3288, Toxic solid, inorganic, n.o.s. (Potassium chromate), 6.1, III
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TDG	UN3288, Toxic solid, inorganic, n.o.s. (Potassium chromate), 6.1, III
IMDG	UN3288, Toxic solid, inorganic, n.o.s. (Potassium chromate), 6.1, III
Marine Pollutant	No
IATA/ICAO	UN3288, Toxic solid, inorganic, n.o.s. (Potassium chromate), 6.1, III

15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA inventory.
DSCL (EEC)	All ingredients are listed on the DSCL inventory.
California Proposition 65	Listed: Potassium chromate
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	Potassium chromate
SARA 312	Potassium chromate
SARA 313	Listed: Potassium chromate
WHMIS Canada	CLASS C: Oxidizing material. CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

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.