


## SECTION 1: Identification

<b>Product identifier</b>	Chromate Indicator
Product name	
Product number	R-0630; R-0630-PL
<b>Recommended use and restrictions</b>	To be used in accordance with manufacturer instructions or under the direct guidance of the manufacturer.
<b>Manufacturer</b>	Taylor Technologies, Inc. 31 Loveton Circle Sparks, MD 21152 Phone: (410) 472-4340 Emergency phone: (800) 837-8548

## SECTION 2: Hazard(s) identification

<b>Physical hazards</b>	Not applicable	
<b>Health hazards</b>	Carcinogenicity	Category 1B
	Germ cell mutagenicity	Category 1B
	Skin sensitization	Category 1
<b>Environmental hazards</b>	Aquatic hazard	Category 2
<b>Label elements</b>		
Hazard pictograms		
Signal word	Danger	
Hazard statements	May cause cancer. May cause genetic defects. May cause an allergic skin reaction. Toxic to aquatic life, with long-lasting effects.	
Precautionary statements		
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection if contact is likely to occur. Avoid breathing dust/fume/gas/mists/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Avoid release into the environment.	
Response	IF EXPOSED OR CONCERNED: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. IF SKIN IRRITATION OR RASH OCCURS: Get medical advice/attention. Wash contaminated clothing before reuse. Collect spillage.	
Storage	Keep tightly capped. Store out of direct sunlight between 36°F–85°F. Store locked up.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations	
<b>Hazards not otherwise classified</b>	Not applicable	

## SECTION 3: Composition/information on ingredients

### Mixture

Chemical name	Common name and synonyms	CAS number	% w/w
Water	Dihydrogen oxide	7732-18-5	80-100
Potassium Chromate	Dipotassium chromate	7789-00-6	5-10

## SECTION 4: First-aid measures

### If inhaled

Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops. Give oxygen or artificial respiration if needed.

**In case of skin contact**

Immediately flush skin with plenty of water for at least 20 minutes. If clothing comes in contact with the product, the clothing should be removed and laundered before reuse. Seek medical attention if irritation develops.

**In case of eye contact**

Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If symptoms persist or in all cases of concern, seek medical advice.

**If swallowed**

Immediately call a physician or poison control center. Rinse mouth. Never give anything by mouth to a person who is unconscious or is having convulsions. Do NOT induce vomiting unless directed by physician. If vomiting occurs, keep head low so that stomach content does not get into the lungs.

**Most important symptoms and effects, both acute and delayed**

Refer to section 2 and/or section 11 of the SDS for the most important known symptoms and effects.

**Indication of any immediate medical attention and special treatment needed**

Provide general supportive measures and treat symptomatically.

**General information**

Ensure medical personnel are aware of the material(s) involved and take precautions to protect themselves.

**SECTION 5: Firefighting measures****Extinguishing media**

Suitable extinguishing media	Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	Do not use a heavy water stream. Use of heavy stream of water may spread fire.

**Specific hazards arising from the substance or mixture**

Fire hazard	Not flammable
Explosion hazard	Not explosive
Reactivity	Hazardous reactions will not occur under normal conditions.
Hazardous combustion products	Chromium oxides, potassium oxides. Other irritating fumes and smoke.

**Advice for firefighters**

Precautionary measures	Exercise caution when fighting any chemical fire; hazardous fumes will be present.
Firefighting equipment/instructions	Use water spray or fog for cooling exposed containers.
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	Refer to section 9 of the SDS for flammability properties.

**SECTION 6: Accidental release measures****Personal precautions, protective equipment, and emergency procedures**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during cleanup. Do not breathe dust or mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protective equipment, refer to section 8 of the SDS.

**Environmental precautions**

Avoid discharge into drains, watercourses, or onto the ground.

**Methods and material for containment and cleaning up**

Ventilate the area. Dike the spilled material where this is possible. Stop leak if it can be done without risk. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth, and place into containers. Prevent entry into waterways, sewers, basements, or confined areas. Following product recovery, flush area with water to remove residual contamination. Never return spills to original containers for reuse. Contaminated absorbent material may pose the same hazards as the spilled product. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

**Reference to other sections**

For exposure controls and personal protection, refer to section 8 of the SDS. For waste disposal, refer to section 13 of the SDS.

**SECTION 7: Handling and storage****Personal precautions, protective equipment, and emergency procedures**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust or mists. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. For personal protective equipment, refer to section 8 of the SDS. Keep away from incompatibles. Observe good industrial hygiene practices. Label containers appropriately.

**Conditions for safe storage, including any incompatibilities**

Keep tightly capped. Store out of direct sunlight between 36°F-85°F. Store locked up. Store away from incompatible materials (refer to section 10 of the SDS).

## SECTION 8: Exposure controls/personal protection

### Occupational exposure limits

#### US ACGIH Threshold Limit Values

<u>Components</u>	<u>Type</u>	<u>Value</u>
Potassium chromate (CAS 7789-00-6) as Cr (VI)	TWA	0.05 mg/m <sup>3</sup>

#### US NIOSH: Pocket Guide to Chemical Hazards

<u>Components</u>	<u>Type</u>	<u>Value</u>
Potassium chromate (CAS 7789-00-6) as Cr (VI)	TWA	0.0002 mg/m <sup>3</sup>

#### US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<u>Components</u>	<u>Type</u>	<u>Value</u>
Potassium chromate (CAS 7789-00-6) as Cr (VI)	TWA	0.005 mg/m <sup>3</sup>
Potassium chromate (CAS 7789-00-6) as Cr (VI)	Ceiling	0.1 mg/m <sup>3</sup>

### Biological limit values

#### ACGIH Biological Exposure Indices

<u>Components</u>	<u>Value</u>	<u>Determinant</u>	<u>Specimen</u>	<u>Sampling Time</u>
Potassium chromate (CAS 7789-00-6) as Cr (VI)	10 µg/L	Total chromium	Urine	Increase during shift
<u>Components</u>	<u>Value</u>	<u>Determinant</u>	<u>Specimen</u>	<u>Sampling Time</u>
Potassium chromate (CAS 7789-00-6) as Cr (VI)	25 µg/L	Total chromium	Urine	End of shift at end of work week

No biological exposure limits noted for the ingredient(s)

### Exposure controls

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eyewash facilities and emergency shower must be available when handling this product.

#### Personal protective equipment

Eye/face protection Wear appropriate chemical safety goggles if contact is likely to occur.  
Skin protection Wear appropriate chemical-resistant gloves and clothing if contact is likely to occur.  
Body protection Wear appropriate protective clothing.  
Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fumes at levels exceeding the exposure limits. Advice should be sought from respiratory protection suppliers.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Physical state	Liquid
Form	Liquid
Color	Light yellow
Odor	Odorless
Odor threshold	No data available
pH	9.1
Evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Initial boiling point (boiling range)	No data available
Flash point	No data available
Specific gravity	No data available
Auto-ignition temperature	No data available

Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Upper Flammability Limit	No data available
Lower Flammability Limit	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility	Soluble in all proportions
Partition coefficient (n-octanol/water)	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

## SECTION 10: Stability and reactivity

<b>Reactivity</b>	Hazardous reactions will not occur under normal conditions.
<b>Chemical stability</b>	Stable under recommended handling and storage conditions (refer to section 7 of the SDS)
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use
<b>Conditions to avoid</b>	Contact with incompatible materials. Do not use in areas without adequate ventilation.
<b>Incompatible materials</b>	Organic materials, powdered metals, strong oxidizing agents.
<b>Hazardous decomposition products</b>	No hazardous decomposition products under normal conditions.

## SECTION 11: Toxicological information

### Information on toxicological effects

Likely routes of exposure are skin/eye contact and ingestion.

<b>Most important symptoms/effects, acute and delayed</b>	Direct skin contact may cause irritation. Symptoms may include redness and itching.
	Direct eye contact may cause serious irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
	Inhalation of mists can cause respiratory irritation. Symptoms may include coughing and breathing difficulties.
	Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.
	Possible germ cell hazard. May cause heritable genetic damage, based on animal data.
	Possible cancer hazard. May cause cancer, based on animal data.

<b>Acute toxicity</b>	This product is not classified as an acute toxicity hazard. See below for product and individual ingredient acute toxicity data.
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<u>Product</u>	<u>Species</u>	<u>Acute Toxicity Estimate (ATE)</u>
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Chromate Indicator (CAS Mixture)

**Acute**

*Dermal*

LD<sub>50</sub>

Rat

No data available

*Inhalation*

LC<sub>50</sub>

Rat

No data available

*Oral*

LD<sub>50</sub>

Rat

3600 mg/kg

<u>Components</u>	<u>Species</u>	<u>Acute Toxicity Data</u>
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Potassium Chromate (CAS 7789-00-6)

**Acute**

*Dermal*

LD<sub>50</sub>

Rat

No data available

*Inhalation*

LC<sub>50</sub>

Rat

No data available

*Oral*

LD <sub>50</sub>	Rat	180 mg/kg
<b>Skin corrosion/irritation</b>	No data available	
<b>Serious eye damage/eye irritation</b>	No data available	
<b>Respiratory sensitization</b>	No data available	
<b>Skin sensitization</b>	May cause an allergic skin reaction	
<b>Germ cell mutagenicity</b>	May cause genetic defects	

#### **Carcinogenicity**

##### **IARC Monographs. Overall Evaluation of Carcinogenicity**

Chromium(VI) Compounds, Group 1; Carcinogenic to humans

##### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)**

Chromium(VI) Compounds; Cancer

##### **US National Toxicology Program (NTP) Report on Carcinogens**

Chromium(VI) Compounds, Known to be a human carcinogens

<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity (single exposure)</b>	No data available
<b>Specific target organ toxicity (repeated exposure)</b>	No data available
<b>Aspiration hazard</b>	No data available

### **SECTION 12: Ecological information**

**Ecotoxicity** Toxic to aquatic life, with long-lasting effects.

#### **Potassium Chromate (Hexavalent Chromium)**

<b>Pimephales promelas</b>	96hr LC <sub>50</sub> = 40 mg/L
<b>Daphnia magna</b>	48hr EC <sub>50</sub> = 0.019 mg/L
<b>Chlorella vulgaris</b>	96hr EC <sub>50</sub> = 0.414 mg/L
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Other adverse effects</b>	Large or frequent spills can have a harmful or damaging effect on the environment.

### **SECTION 13: Disposal considerations**

Collect and reclaim or dispose of in sealed containers at a licensed waste disposal site. Since emptied containers may retain product residue, follow label warnings even after container is emptied. This material and its container must be disposed of in a safe manner. Dispose of contents/container in accordance with local/regional/national/international regulations.

### **SECTION 14: Transport information**

#### **DOT**

<b>UN number</b>	3082
<b>UN Proper shipping name</b>	Environmentally hazardous substances, liquid, N.O.S. (Potassium chromate)
<b>Reportable Quantity</b>	10lbs, Potassium chromate
<b>Class (Subsidiary risk)</b>	9
<b>Label(s)</b>	9
<b>Packing group</b>	III
<b>Special provisions</b>	8, 146, 173, 335, IB3, T4, TP1, TP29
<b>Packaging exceptions</b>	155
<b>Packaging, non-bulk</b>	203

#### **IATA**

<b>UN number</b>	3082
<b>UN Proper shipping name</b>	Environmentally hazardous substances, liquid, N.O.S. (Potassium chromate)
<b>Class (Subsidiary risk)</b>	9

<b>Packing group</b>	III
<b>Special provisions</b>	A97, A158, A197
<b>IMDG</b>	
<b>UN number</b>	3082
<b>UN Proper shipping name</b>	Environmentally hazardous substances, liquid, N.O.S. (Potassium chromate)
<b>Class (Subsidiary risk)</b>	9
<b>Packing group</b>	III
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>Special provisions</b>	274,335, 969
<b>EmS</b>	F-A, S-F
<b>Special precautions for user</b>	Read safety instructions, SDS, and emergency procedures before handling.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	This substance/mixture is not intended to be transported in bulk.

DOT hazard pictograms



IATA; IMDG hazard pictograms



## SECTION 15: Regulatory information

### US federal regulations

#### CERCLA Hazardous Substance (40 CFR 302.4)

<u>Chemical name</u>	<u>CAS number</u>	<u>Reportable Quantity</u>
Potassium Chromate	7789-00-6	10 lbs

#### SARA 302 Extremely Hazardous Substance (40 CFR 355 Appendices A / B)

Not regulated

#### SARA 304 Emergency Release Notification

Not regulated

#### SARA 311/312 Hazardous Chemical

<u>Chemical name</u>	<u>CAS number</u>
Potassium Chromate	7789-00-6

#### SARA 313 (TRI reporting)

<u>Chemical name</u>	<u>CAS number</u>
Potassium Chromate	7789-00-6

#### TSCA Section 8(b) Chemical Inventory

All components are on the U.S. EPA TSCA Inventory list.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

<u>Chemical name</u>	<u>CAS number</u>
Potassium Chromate	7789-00-6

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs)

<u>Chemical name</u>	<u>CAS number</u>
Potassium Chromate	7789-00-6

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated

#### Clean Water Act, Toxic and Priority Pollutants (40 CFR 401.15 and CFR 423, Appendix A)

<u>Chemical name</u>	<u>CAS number</u>
Potassium Chromate	7789-00-6

#### Safe Drinking Water Act (SDWA)

<u>Chemical name</u>	<u>CAS number</u>
Potassium Chromate	7789-00-6

#### US state regulations

##### California Safe Drinking Water and Toxic Enforcement Act of 1986 (California Proposition 65)

<u>Chemical name</u>	<u>CAS number</u>
Potassium Chromate	7789-00-6

**WARNING:** This product can expose you to Potassium chromate (hexavalent chromium compound), which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

##### Massachusetts Right-to-Know Act

<u>Chemical name</u>	<u>CAS number</u>
Potassium Chromate	7789-00-6

##### New Jersey Worker and Community Right-to-Know Act

<u>Chemical name</u>	<u>CAS number</u>
Potassium Chromate	7789-00-6

##### Pennsylvania Worker and Community Right-to-Know Act

<u>Chemical name</u>	<u>CAS number</u>
Potassium Chromate	7789-00-6

##### Rhode Island Right-to-Know Act

<u>Chemical name</u>	<u>CAS number</u>
Potassium Chromate	7789-00-6

### SECTION 16: Other information

#### NFPA Rating

Health hazard	3
Fire hazard	0
Reactivity	0
Specific	N/A

#### Disclaimer

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