



SAFETY DATA SHEET


According to 29 CFR 1910.1200 Hazard Communication Standard 2012 (HazCom 2012)

Revision: 11/17/2021

SECTION 1: Identification

Product identifier	
Product name	Chromate Indicator
Product number	R-0630; R-0630-PL
Recommended use and restrictions	To be used in accordance with manufacturer instructions or under the direct guidance of the manufacturer.
Manufacturer	Taylor Technologies, Inc. 31 Loveton Circle Sparks, MD 21152 Phone: (410) 472-4340 Emergency phone: (800) 837-8548
Emergency phone number	
CHEMTREC, United States	1-800-424-9300 – 24-hour service
CHEMTREC, International	+1 703-741-5970 – 24-hour service

SECTION 2: Hazard(s) identification

Physical hazards	Not applicable	
Health hazards	Eye damage/irritation	Category 2
	Skin corrosion/irritation	Category 2
	Carcinogenicity	Category 1B
	Germ cell mutagenicity	Category 1B
	Skin sensitization	Category 1
Environmental hazards	Acute (short-term) aquatic toxicity hazard	Category 1
	Chronic (long-term) aquatic toxicity hazard	Category 1
Label elements		
Hazard pictograms		
Signal word	Danger	
Hazard statements	Causes skin irritation. Causes serious eye irritation. May cause cancer. May cause genetic defects. May cause an allergic skin reaction. Very 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. Wash skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection if contact is likely to occur. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Avoid release into the environment.	
Response	<p>IF ON SKIN: Wash with plenty of water.</p> <p>IF SKIN IRRITATION OR RASH OCCURS: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.</p> <p>IF EYE IRRITATION PERSISTS: Get medical advice/attention.</p> <p>IF EXPOSED OR CONCERNED: Get medical advice/attention.</p> <p>Collect spillage.</p>	
Storage	Store locked up. Keep tightly capped. Store out of direct sunlight between 36°F–85°F.	

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations

Hazards not otherwise classified 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

Direct skin or eye contact may cause serious irritation. Symptoms may include redness or itching. Tearing of the eyes or blurred vision may occur. Skin contact may cause allergic skin reaction, dermatitis or rash. Inhalation may cause respiratory irritation, such as coughing. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. This product contains material that may be carcinogenic or mutagenic to humans.

Refer to section 11 of the SDS for delayed and immediate effects and chronic effects from short- and long-term exposure. Refer to section 7 for precautions for safe handling.

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 May be corrosive to metals.

Hazardous combustion products Chromium oxides, potassium oxides. During fire, gases hazardous to health may be formed.

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 large 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

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 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

Store locked up. Keep tightly capped. Store out of direct sunlight between 36°F-85°F. 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

Components	Type	Value
Potassium chromate (CAS 7789-00-6) as Cr (VI)	TWA	0.0002 mg/m ³
Potassium chromate (CAS 7789-00-6) as Cr (VI)	STEL	0.0005 mg/m ³

US NIOSH: Pocket Guide to Chemical Hazards

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

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

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

Biological limit values

ACGIH Biological Exposure Indices

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

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 safety glasses with side shields (or 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
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

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

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation	Avoid inhalation of this product. Use in a well-ventilated area.
Skin contact	Protect exposed skin from contact. Use caution to avoid splashes.
Eye contact	Avoid close eye contact; Use caution to avoid splashes. Wear eye protection.
Ingestion	Do not ingest. Avoid accidental ingestion by observing good hygiene practices. Wash hands thoroughly after handling this product.

Symptoms related to the physical, chemical, and toxicological characteristics

Direct skin or eye contact may cause serious irritation. Skin contact may cause allergic skin reaction, dermatitis or rash. This product contains material that may be carcinogenic or mutagenic to humans, based on sufficient evidence of carcinogenicity in humans. May cause heritable genetic damage.

Refer to section 4 of the SDS for most important symptoms and effects.

Acute toxicity

This product is not classified as an acute toxicity hazard. Acute toxicity estimate (ATE) has been calculated based on chapter 3 of GHS. 0% of the mixture consists of ingredient(s) with unknown acute toxicity.

Product acute toxicity estimate (ATE)

ATEmix (Oral)	> 2500 mg/kg
ATEmix (Dermal)	No data available
ATEmix (Inhalation)	No data available

Component(s)	Species	Acute toxicity data
Potassium Chromate (CAS 7789-00-6)		
LD50 (Oral)	Mouse	180 mg/kg (source: vendor)
LD50 (Dermal)	Rabbit	No data available
LC50 (Inhalation)	Rat	No data available
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory sensitization	No data available	
Skin sensitization	May cause an allergic skin reaction.	
Germ cell mutagenicity	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		
Reproductive toxicity	No data available	
Specific target organ toxicity (single exposure)	No data available	
Specific target organ toxicity (repeated exposure)	No data available	
Aspiration hazard	No data available	

SECTION 12: Ecological information

Ecotoxicity	Very toxic to aquatic life, with long-lasting effects.	
Potassium Chromate (CAS 7789-00-6)		
EC50	Crustacea (Water flea)	0.024 mg/L, 48 hours (source: vendor)
LC50	Fish (Sheepshead minnow)	23 – 27 mg/L, 96 hours (source: vendor)
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Other adverse effects	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		
UN number	3082	
UN Proper shipping name	Environmentally hazardous substances, liquid, N.O.S. (Potassium chromate)	
Reportable Quantity	10lbs, Potassium chromate	
Class (Subsidiary risk)	9	
Label(s)	9	
Packing group	III	
Special provisions	8, 146, 173, 335, IB3, T4, TP1, TP29	

Packaging exceptions 155
Packaging, non-bulk 203

IATA

UN number 3082
UN Proper shipping name Environmentally hazardous substances, liquid, N.O.S. (Potassium chromate)
Class (Subsidiary risk) 9
Packing group III
Special provisions A97, A158, A197

IMDG

UN number 3082
UN Proper shipping name Environmentally hazardous substances, liquid, N.O.S. (Potassium chromate)
Class (Subsidiary risk) 9
Packing group III
Environmental hazards
Marine pollutant Yes
Special provisions 274, 335, 969
EmS F-A, S-F

Special precautions for user Read safety instructions, SDS, and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code 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.

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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Issue date:

May 2015

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11/17/2021

Revision information:

This document embodies significant change(s) that may impact classification, safe handling, or health information for the associated product(s). The information contained herein should be reviewed in its entirety before handling material.

Identification: Emergency response

Hazard identification: Classification

First-aid: Most important symptoms and effects, both acute and delayed

Toxicological Information: Information on likely routes of exposure

Supersedes revision dated January 2018.