

SAFETY DATA SHEET

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

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.

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Emergency phone: (800) 837-8548

SECTION 2: Hazard(s) identification

Physical hazards Not applicable

Health hazards Carcinogenicity Category 1B

Germ cell mutagenicity

Skin sensitization

Aquatic hazard

Category 1

Category 2

Environmental hazards

Label elements

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.

7789-00-6

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

Dipotassium chromate

Hazards not otherwise classified Not applicable

SECTION 3: Composition/information on ingredients Mixture Chemical name Common name and synonyms CAS number Water Dihydrogen oxide 7732-18-5 80-100

SECTION 4: First-aid measures

Potassium Chromate

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.

SDS US

5-10

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 eve 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 Use water spray or fog for cooling exposed containers.

equipment/instructions

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

Components	Туре	<u>Value</u>
Potassium chromate (CAS 7789-00-6) as Cr (VI)	TWA	0.05 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	Туре	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)	Ceilina	0.1 ma/m³	

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
	T GIGO	Determinant	Specimen	Sampling Time

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

Melting point

Freezing point

Initial boiling point (boiling range)

Flash point

Specific gravity

Auto-ignition temperature

No data available

No data available

No data available

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

No data available

(n-octanol/water)

No data available Viscosity Explosive properties No data available Oxidizing properties No data available

SECTION 10: Stability and reactivity

Reactivity Hazardous reactions will not occur under normal conditions.

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 Organic materials, powdered metals, strong oxidizing agents. Hazardous decomposition No hazardous decomposition products under normal conditions.

products

SECTION 11: Toxicological information

Information on toxicological effects

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

Most important

symptoms/effects, acute and delayed

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.

Acute toxicity This product is not classified as an acute toxicity hazard. See below for product and individual

ingredient acute toxicity data.

Acute Toxicity Estimate (ATE) Product Species

Chromate Indicator (CAS Mixture)

Acute

Dermal

LD50 Rat No data available

Inhalation

LC₅₀ No data available Rat

Oral

 LD_{50} Rat 3600 mg/kg

Components **Acute Toxicity Data Species**

Potassium Chromate (CAS 7789-00-6)

Acute

Dermal

LD₅₀ Rat No data available

Inhalation

LC50 Rat No data available

Oral

 LD_{50} Rat 180 mg/kg

Skin corrosion/irritationNo data availableSerious eye damage/eye irritationNo data availableRespiratory sensitizationNo 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

No data available

(single exposure)

Specific target organ toxicity

(repeated exposure)

No data available

No data available

Aspiration hazard No data available

SECTION 12: Ecological information

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

Potassium Chromate (Hexavalent Chromium)

 $\begin{array}{ll} \textbf{Pimephales promelas} & 96 \text{hr LC}_{50} = 40 \text{ mg/L} \\ \\ \textbf{Daphnia magna} & 48 \text{hr EC}_{50} = 0.019 \text{ mg/L} \\ \\ \textbf{Chlorella vulgaris} & 96 \text{hr EC}_{50} = 0.414 \text{ mg/L} \\ \\ \textbf{Persistence and degradability} & \text{No data available} \\ \\ \textbf{Bioaccumulative potential} & \text{No data available} \\ \end{array}$

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

Mobility in soil

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)

Chemical name CAS number Reportable Quantity

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

Chemical nameCAS numberPotassium Chromate7789-00-6

SARA 313 (TRI reporting)

Chemical nameCAS numberPotassium Chromate7789-00-6

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)

Chemical nameCAS numberPotassium Chromate7789-00-6

Other federal regulations

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

Chemical nameCAS numberPotassium Chromate7789-00-6

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)

Chemical nameCAS numberPotassium Chromate7789-00-6

Safe Drinking Water Act (SDWA)

Chemical name CAS number

Potassium Chromate 7789-00-6

US state regulations

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

Chemical nameCAS numberPotassium Chromate7789-00-6

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

Chemical nameCAS numberPotassium Chromate7789-00-6New Jersey Worker and Community Right-to-Know ActChemical nameCAS numberPotassium Chromate7789-00-6Pennsylvania Worker and Community Right-to-Know ActChemical nameCAS numberPotassium Chromate7789-00-6

Rhode Island Right-to-Know Act

Chemical name CAS number

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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