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1 Identification

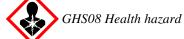
- · Product identifier
- Trade name: <u>Potassium Chromate</u> <u>63% w/v Solution (Saturated)</u>
- · Article number: 7040
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Aqua Solutions, Inc.
 6913 Highway 225 DEER PARK, TX 77536

USA 800-256-2586

- Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Technical Coordinator Sherman Nelson shermann@aquasolutions.org
- Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666

2 Hazard(s) identification





Germ Cell Mutagenicity 1B Carcinogenicity 1A

GHS07

H340 May cause genetic defects. H350 May cause cancer.

Acute Toxicity - Oral 4	H302 Harmful if swallowed.
Skin Irritation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Sensitization - Skin 1	H317 May cause an allergic skin reaction.
Specific Target Organ Toxicity - Single Exposure 3	H335 May cause respiratory irritation.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

• Hazard-determining components of labeling: Potassium Chromate

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Trade name: Potassium Chromate 63% w/v Solution (Saturated)

	(Contd. of page 1)
· Hazard statements	
Harmful if swallowed.	
Causes skin irritation.	
Causes serious eye irritation.	
May cause an allergic skin reaction.	
May cause genetic defects.	
May cause cancer.	
May cause respiratory irritation.	
· Precautionary statements	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
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 must not be allowed out of the workplace.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Call a poison center/doctor if you feel unwell.	
Rinse mouth.	
If on skin: Wash with plenty of water.	
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if pres	ent and easy to do.
Continue rinsing.	
IF exposed or concerned: Get medical advice/attention.	
Specific treatment (see on this label).	
Take off contaminated clothing and wash it before reuse.	
If skin irritation or rash occurs: Get medical advice/attention.	
If eye irritation persists: Get medical advice/attention.	
Wash contaminated clothing before reuse.	
Store in a well-ventilated place. Keep container tightly closed.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regula	tions.
· Classification system:	
NFPA ratings (scale 0 - 4)	
Health = 2	
Fire = 0	
\mathbf{C} Reactivity = 0	
HMIS-ratings (scale 0 - 4)	
FIRE 0 $Fire = 0$	
REACTIVITY 0 <i>Reactivity</i> = 0	
· Other hazards	
\cdot Results of PBT and vPvB assessment	
• PBT : Not applicable.	
• vPvB : Not applicable.	
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45.025%

54.975%

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 7789-00-6 Potassium Chromate

· Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water

4 First-aid measures

· Description of first aid measures

- · General information:
- Immediately remove any clothing soiled by the product.
- Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: Immediately call a doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system. Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

• Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.

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(Contd. of page 3) • Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. • Protective Action Criteria for Chemicals • PAC-1: CAS: 7789-00-6 Potassium Chromate 0.56 mg/m³ • PAC-2: CAS: 7789-00-6 Potassium Chromate 9.7 mg/m³ • PAC-3: CAS: 7789-00-6 Potassium Chromate 58 mg/m³

7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.

- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:

• Requirements to be met by storerooms and receptacles: No special requirements.

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see section 7.
- · Control parameters

· Com	· Components with limit values that require monitoring at the workplace:		
CAS.	CAS: 7789-00-6 Potassium Chromate		
PEL	Long-term value: 0.005* mg/m ³ Ceiling limit value: 0.1** mg/m ³ *as Cr(VI) **as CrO3; see 29 CFR 1910.1026		
	Long-term value: 0.0002 mg/m ³ as Cr; See Pocket Guide Apps. A and C		
TLV	Short-term value: 0.0005 mg/m³ Long-term value: 0.0002 mg/m³ as Cr(VI); A1;inhalable, Skin;BEI, DSEN, RSEN		
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-	edients with biological limit values: : 7789-00-6 Potassium Chromate
	25 μg/L
DEI	LD50 Intraperitoneal: urine
	Time: end of shift at end of workweek
	LD50: Total chromium (fume)
	$10\mu g/L$
	LD50 Intraperitoneal: urine
	Time: increase during shift
	LD50: Total chromium (fume)
Addi	tional information: The lists that were valid during the creation were used as basis.
	osure controls
	onal protective equipment:
	eral protective and hygienic measures:
	away from foodstuffs, beverages and feed.
	ediately remove all soiled and contaminated clothing.
	h hands before breaks and at the end of work.
	e protective clothing separately. d contact with the eyes and skin.
	thing equipment:
	use of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure u
	iratory protective device that is independent of circulating air.
	ection of hands:
Due chen Selec Mate The	Protective gloves glove material has to be impermeable and resistant to the product/ the substance/ the preparation. to missing tests no recommendation to the glove material can be given for the product/ the preparation/ t nical mixture. ection of the glove material on consideration of the penetration times, rates of diffusion and the degradation for al of gloves selection of the suitable gloves does not only depend on the material, but also on further marks of quality and the state of the suitable gloves does not only depend on the material of several substances, the resistance
	love material can not be calculated in advance and has therefore to be checked prior to the application.
	tration time of glove material
	exact break through time has to be found out by the manufacturer of the protective gloves and has to
obse	
Eye	protection:
	Tightly sealed goggles
Body	protection: Protective work clothing

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Physical and chemical property	ties	
Information on basic physical and chemical properties		
General Information		
· Appearance:		
Form:	Liquid	
Color:	Yellow	
· Odor:	Odorless	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
· Ignition temperature:	Product is not selfigniting.	
• Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
· Density at 20 °C (68 °F):	1.3922 g/cm ³ (11.61791 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octanol/water): Not determined.		
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	55.0 %	
VOC content:	0.00~%	
	0.0 g/l / 0.00 lb/gal	
Solids content:	45.0 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

• *Reactivity* No further relevant information available.

· Chemical stability

• *Thermal decomposition / conditions to be avoided:* No decomposition if used according to specifications.

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Trade name: Potassium Chromate

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· Possibility of hazardous reactions No dangerous reactions known.

• Conditions to avoid No further relevant information available.

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

- Oral LD50 400 mg/kg (mouse)
- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations: Harmful
- Irritant

The product can cause inheritable damage.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 7789-00-6 Potassium Chromate

· NTP (National Toxicology Program)

CAS: 7789-00-6 Potassium Chromate

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- · Additional ecological information:

· General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

- Danger to drinking water if even small quantities leak into the ground.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

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13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number	
DOT, IMDG, IATA	UN3122
UN proper shipping name	
DOT	Toxic liquids, oxidizing, n.o.s. (Potassium Chromate)
·IMDG	TOXIC LIQUID, OXIDIZING, N.O.S. (Potassium Chromate MARINE POLLUTANT
·IATA	TOXIC LIQUID, OXIDIZING, N.O.S. (Potassium Chromate)
• Transport hazard class(es)	
DOT	
TOXIC 6 8	
· Class	6.1 Toxic substances
Label	6.1, 5.1
- Class	6.1 Toxic substances
Label	6.1/5.1
· Class	6.1 Toxic substances
· Label	6.1 (5.1)
Packing group	11
· DOT, IMDG, IATA	II
Environmental hazards:	
• Marine pollutant:	Yes
	Symbol (fish and tree)

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	(Contd. of page 8)
· Special precautions for user	Warning: Toxic substances
\cdot Hazard identification number (Kemler code): 6151	
• EMS Number:	F-A,S-Q
· Stowage Category	Ε
· Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
· UN ''Model Regulation'':	UN 3122 TOXIC LIQUID, OXIDIZING, N.O.S. (POTASSIUM CHROMATE), 6.1 (5.1), II

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara · Section 355 (extremely hazardous substances): None of the ingredients is listed. · Section 313 (Specific toxic chemical listings): CAS: 7789-00-6 Potassium Chromate · TSCA (Toxic Substances Control Act): Water ACTIVE Potassium Chromate ACTIVE · Hazardous Air Pollutants CAS: 7789-00-6 Potassium Chromate · Proposition 65 · Chemicals known to cause cancer: CAS: 7789-00-6 Potassium Chromate · Chemicals known to cause reproductive toxicity for females: CAS: 7789-00-6 Potassium Chromate · Chemicals known to cause reproductive toxicity for males: CAS: 7789-00-6 Potassium Chromate · Chemicals known to cause developmental toxicity: CAS: 7789-00-6 Potassium Chromate · Carcinogenic categories · EPA (Environmental Protection Agency) CAS: 7789-00-6 Potassium Chromate A(inh), D(oral), K/L(inh), CBD(oral) · TLV (Threshold Limit Value) CAS: 7789-00-6 Potassium Chromate A1· NIOSH-Ca (National Institute for Occupational Safety and Health) CAS: 7789-00-6 Potassium Chromate • GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

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Trade name: Potassium Chromate 63% w/v Solution (Saturated)

(Contd. of page 9) · Hazard pictograms GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: Potassium Chromate · Hazard statements Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause genetic defects. May cause cancer. May cause respiratory irritation. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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 must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · National regulations: • Additional classification according to Decree on Hazardous Materials: Carcinogenic hazardous material group III (dangerous). · Information about limitation of use: Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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63% w/v Solution (Saturated)

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16 Other information This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• Department issuing SDS: Environment protection department.

· Contact:

Date of Preparation / Last Revision: · Date of preparation / last revision Revision 0.1, 06/18/2024: Reviewed SDS for accuracy. MH/STN 06/18/2024 / 1.0 • Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL:** Recommended Exposure Limit BEI: Biological Exposure Limit Acute Toxicity - Oral 4: Acute toxicity - Category 4 Skin Irritation 2: Skin corrosion/irritation - Category 2 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Sensitization - Skin 1: Skin sensitisation - Category 1 Germ Cell Mutagenicity 1B: Germ cell mutagenicity - Category 1B Carcinogenicity 1A: Carcinogenicity - Category 1A Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3 \cdot * Data compared to the previous version altered.

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