Printing date 12/06/2024

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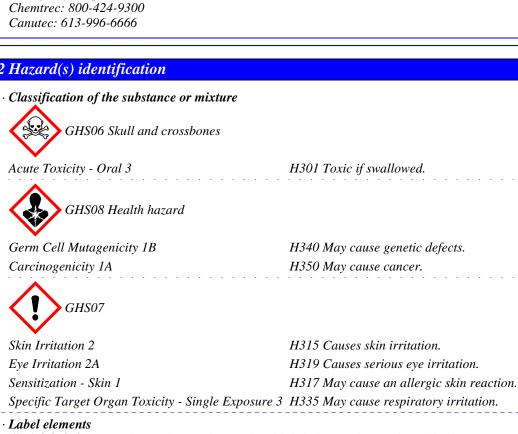
1 Identification

- · Product identifier
- Trade name: Potassium Chromate 63% w/v Solution (Saturated)
- 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



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



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

· Signal word Danger	(Contd. of page 1)
· Hazard-determining components of labeling:	
Potassium Chromate	
· Hazard statements	
Toxic 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: Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
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 len	ises, if present and easy to do.
Continue rinsing.	
IF exposed or concerned: Get medical advice/attention.	
Call a poison center/doctor if you feel unwell.	
Take off contaminated clothing and wash it before reuse.	
If skin irritation or rash occurs: Get medical advice/attention.	
<i>If eye irritation persists: Get medical advice/attention.</i>	
Wash contaminated clothing before reuse.	
Store in a well-ventilated place. Keep container tightly closed.	
Store locked up.	and manufations
Dispose of contents/container in accordance with local/regional/national/international/	onal regulations.
· Classification system:	
· NFPA ratings (scale 0 - 4)	
Health = 2	
Fire = 0	
2 0 Reactivity = 0	
· HMIS-ratings (scale 0 - 4)	
$\frac{\text{HEALTH}}{2} Health = *2$	
FIRE 0 $Fire = 0$	
REACTIVITY O <i>Reactivity</i> = 0	
· Other hazards	
· Results of PBT and vPvB assessment	
• <i>PBT</i> : Not applicable.	
	(Contd. on page 3)

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Trade name: Potassium Chromate

63% w/v Solution (Saturated)

(Contd. of page 2)

45.025%

54.975%

· vPvB: Not applicable.

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.

- In case of irregular breathing or respiratory arrest provide artificial respiration.
- 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
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.
- · 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.

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63% w/v Solution (Saturated)

Ensure adequate	ventilation.	(Contd. of page 3)
· Reference to oth		
	information on safe handling.	
0	information on personal protection equipment.	
	or disposal information.	
•	n Criteria for Chemicals	
· PAC-1:		
CAS: 7789-00-6	Potassium Chromate	0.56 mg/m ³
· PAC-2:		
CAS: 7789-00-6	Potassium Chromate	9.7 mg/m ³
· PAC-3:		
CAS: 7789-00-6	Potassium Chromate	58 mg/m ³

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	ponents with limit values that require monitoring at the workplace:	
CAS	S: 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	
REL	Long-term value: 0.0002 mg/m ³ as Cr; See Pocket Guide Apps. A and C	
TLV	⁷ Short-term value: 0.0005 mg/m ³ Long-term value: 0.0002 mg/m ³ as Cr(VI); A1;inhalable, Skin;BEI, DSEN, RSEN	
		(Contd. on page 5)

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Trade name: Potassium Chromate

63% w/v Solution (Saturated)

(Contd. of page 4)

	redients with biological limit values: 5: 7789-00-6 Potassium Chromate
	$25 \mu g/L$
	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)
Add	itional information: The lists that were valid during the creation were used as basis.
Exp	osure controls
	sonal protective equipment:
	eral protective and hygienic measures:
	p away from foodstuffs, beverages and feed.
	nediately remove all soiled and contaminated clothing.
	h hands before breaks and at the end of work.
	e protective clothing separately.
	id contact with the eyes and skin. athing equipment:
	ase 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.
	tection of hands:
ent.	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/
	nical mixture.
	ction of the glove material on consideration of the penetration times, rates of diffusion and the degradation
	erial of gloves
	selection of the suitable gloves does not only depend on the material, but also on further marks of quality ar
	es from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance glove material can not be calculated in advance and has therefore to be checked prior to the application.
	etration time of glove material
The	exact break through time has to be found out by the manufacturer of the protective gloves and has to be erved.
	protection:
¢	Tightly sealed goggles
	y protection: Protective work clothing

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Trade name: Potassium Chromate

63% w/v Solution (Saturated)

(Contd. of page 5)

Physical and chemical property		
· Information on basic physical and c	hemical properties	
· General Information		
· Appearance:	T · · · 1	
Form: Color:	Liquid Yellow	
· Odor:	Yellow Odorless	
• Odor: • Odor threshold:	Not determined.	
	Not determined.	
· pH-value:	Noi delermined.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
· Flash point:	Not applicable.	
· Flammability:	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/wate		
	r). Wol 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

63% w/v Solution (Saturated)

(Contd. of page 6)

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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: Toxic
- 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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63% w/v Solution (Saturated)

(Contd. of page 7)

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.

· DOT, IMDG, IATA	UN3287
UN proper shipping name DOT	Toxic liquid, inorganic, n.o.s. (Potassium Chromate)
IMDG, IATA	TOXIC LIQUID, INORGANIC, N.O.S. (Potassium Chromate)
· Transport hazard class(es)	
DOT	
TOXIC 6	
· Class	6.1 Toxic substances
Label	6.1
Class Label	6.1 Toxic substances 6.1
· Labei · IATA	0.1
Class	6.1 Toxic substances
	6.1 Toxic substances 6.1
Class Class Label Packing group DOT, IMDG, IATA	
Label Packing group	6.1

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

	(Contd. of page 8
· EMS Number:	F-A,S-A
· Stowage Category	В
· Stowage Code	SW2 Clear of living quarters.
· Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
·DOT	
· Quantity limitations	On passenger aircraft/rail: 1 L
	On cargo aircraft only: 30 L
· IMDG	
\cdot Limited quantities (LQ)	0
\cdot Excepted quantities (EQ)	Code: E5
	Maximum net quantity per inner packaging: 1 ml
	Maximum net quantity per outer packaging: 300 ml
· UN ''Model Regulation'':	UN 3287 TOXIC LIQUID, INORGANIC, N.O.S. (POTASSIUM
-	CHROMATE), 6.1, I

15 Regulatory information

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· Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara

· Section 355 (ext	remely hazardous substances):	
None of the ingr	edients is listed.	
· Section 313 (Spe	cific toxic chemical listings):	
CAS: 7789-00-6	Potassium Chromate	
· TSCA (Toxic Su	bstances Control Act):	
Water		ACTIVE
Potassium Chron	nate	ACTIVE
· Hazardous Air I	Pollutants	
CAS: 7789-00-6	Potassium Chromate	
· Proposition 65	-	
· Chemicals know	n to cause cancer:	
CAS: 7789-00-6	Potassium Chromate	
· Chemicals know	n to cause reproductive toxicity for females:	
CAS: 7789-00-6	Potassium Chromate	
· Chemicals know	n to cause reproductive toxicity for males:	
CAS: 7789-00-6	Potassium Chromate	
· Chemicals know	n to cause developmental toxicity:	
CAS: 7789-00-6	Potassium Chromate	
· Carcinogenic ca	tegories	
· EPA (Environm	ental Protection Agency)	
CAS: 7789-00-6	Potassium Chromate	A(inh), D(oral), K/L(inh), CBD(oral)
		(Contd. on page 1

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Trade name: Potassium Chromate

• TLV (Threshold Limit Value)

63% w/v Solution (Saturated)

(Contd. of page 9)

A1

CAS: 7789-00-6 Potassium Chromate

\cdot 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). • *Hazard pictograms*



· Signal word Danger

· Hazard-determining components of labeling: Potassium Chromate · Hazard statements Toxic 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: Immediately call a poison center/doctor. Specific treatment (see on this label). 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.* Call a poison center/doctor if you feel unwell. 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.

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

(Contd. of page 10)

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this prepar Exceptions can be made by the authorities in certain cases. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. Chemical Safety assessment: A Chemical Safety Assessment has not been carried out. Department issuing SDS: Environment protection department. Contact: Date of Preparation / Last Revision Revision 1.2, 12-06-2024: updated hazard and DOT information based on supplier raw material SDS. STN 12/06/2024 / 1.1 Abbreviations and acronyms: IMDC: International Arritime Code for Dangerous Goods DOT: US Department of Transport Association EINECS: European List of Notified Chemical Substances ELNCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volaile Organic Compounds (USA, EU) LCSO: Lethal dose, 50 percent DSD: Lethal do	Exception	s can be made by the authorities in certain cases.
Chemical safety assessment: A Chemical Safety Assessment has not been carried out. Other information This information is based on our present knowledge. However, this shall not constitute a guarantee for 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: Date of preparation / Last revision Revision 1.2, 12-06-2024: updated hazard and DOT information based on supplier raw material SDS. STN 12/06/2024 / 1.1 Abbreviations and acronyms: INDG: International Marrime Code for Dangerous Goods DOT: US Department of Transportation IAX: International Marrimaport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic VPB: very Persistent, Bioaccumulative and Toxic VPB: very Persistent, Bioaccumulative NIOSH: National Initie for Occupational Safety OISH: Occu		
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Germ Cell Mutagenicity 1B: Germ cell mutagenicity – Category 1B		
	Carcinogen	get 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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