Printing date 09/14/2017

Reviewed on 09/14/2017

1 Identification

- · Product identifier
- Trade name: <u>Potassium Chromate</u> <u>2.5% w/v Indicator Solution</u>
- · Article number: 7018
- 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 sherman@aquasolutions.org • Emergency telephone number:
- *Chemtrec:* 800-424-9300 *Canutec:* 613-996-6666

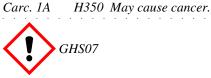
2 *Hazard*(*s*) *identification*

· Classification of the substance or mixture



GHS08 Health hazard

Muta. 1B H340 May cause genetic defects.



Skin Sens. 1 H317 May cause an allergic skin reaction.

· 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
Hazard statements May cause an allergic skin reaction. May cause genetic defects. May cause cancer.
Precautionary statements Obtainments intermetions hefereners

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

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(Contd. of page 1) Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of water. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 2Fire = 0Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH 2 Health = 2FIRE Fire = 00 **REACTIVITY O** Reactivity = 0· Other hazards · Results of PBT and vPvB assessment · **PBT:** Not applicable. · **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

• 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.
- · After swallowing: If symptoms persist consult doctor.
- Information for doctor:

· Most important symptoms and effects, both acute and delayed No further relevant information available.

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2.5%

97.5%

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• *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:
- 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 item 13. Ensure adequate ventilation.
- **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

· PAC-2:

CAS: 7789-00-6 Potassium Chromate

· PAC-3:

CAS: 7789-00-6 Potassium Chromate

7 Handling and storage

· Handling:

- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · Information about protection against explosions and fires: No special measures required.
- · 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: None.
- Specific end use(s) No further relevant information available.

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0.56 mg/m3

9.7 mg/m3

58 mg/m3

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Add	itional information about design of technical systems: No further data; see item 7.
Con	<i>trol parameters</i>
	ponents with limit values that require monitoring at the workplace:
	5: 7789-00-6 Potassium Chromate
	Long-term value: 0.005* mg/m ³
I LL	Ceiling limit value: 0.1** mg/m ³
	*as Cr(VI) **as CrO3; see 29 CFR 1910.1026
RFI	Long-term value: 0.0002 mg/m^3
KLL	as Cr; See Pocket Guide Apps. A and C
ILV	Short-term value: NIC-0.0005* mg/m ³ Long-term value: (0.05) NIC-0.0002* mg/m ³
	as Cr; *inhalable, BEI, NIC-Skin, DSEN, RSEN
	redients with biological limit values:
	S: 7789-00-6 Potassium Chromate
BEI	25 µg/L
	LD50 Intraperitoneal: urine
	Time: end of shift at end of workweek
	LD50: Total chromium (fume)
	10 µg/L
	LD50 Intraperitoneal: urine
	Time: increase during shift
	LD50: Total chromium (fume)
Add	<i>itional information:</i> The lists that were valid during the creation were used as basis.
	•
	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. athing equipment:
	ase of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure u
	<i>iratory protective device that is independent of circulating air.</i> <i>tection of hands:</i>
Fro	ection of nanas:
	$\hat{\mathbf{m}}$
1/1	Protective gloves
The	alove material has to be impermeable and resistant to the product the substance the propagation
	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.
	ction of the glove material on consideration of the penetration times, rates of diffusion and the degradation
	erial of gloves selection of the quitable cloves does not only depend on the material, but also on further marks of quality a
ine	selection of the suitable gloves does not only depend on the material, but also on further marks of quality a

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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(Contd. of page 4)

· Penetration 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 observed.

• Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and	chemical properties	
General Information	• •	
Appearance:		
Form:	Fluid	
Color:	According to product specification	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	>95 °C (>203 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto igniting:	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 mm Hg)	
Density at 20 °C (68 °F):	1.04325 g/cm ³ (8.706 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/wat	er): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	

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Trade name: Potassium Chromate

2.5% w/v Indicator Solution

· Solvent content:

• Other information

Organic solvents: Water:

VOC content:

0.0 % 97.5 % 0.0 g/l / 0.00 lb/gl 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.
- · 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 7200 mg/kg (mouse)

CAS: 7789-00-6 Potassium Chromate

Oral LD50 180 mg/kg (mouse)

· Primary irritant effect:

• on the skin: No irritant effect.

 \cdot on the eye: No 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: 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.

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- · 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 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.

• **vPvB:** Not applicable.

· Other adverse effects No further relevant information available.

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, ADN, IMDG, IATA	Not regulated	
UN proper shipping name DOT, ADN, IMDG, IATA	Not regulated	
Transport hazard class(es)		
DOT, ADN, IMDG, IATA		
- Class	Not regulated	
Packing group		
DOT, IMDG, IATA	Not regulated	
Environmental hazards:		
Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	Not applicable.	

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15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot 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):

All ingredients are listed.

· 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 established by ACGIH)

CAS: 7789-00-6 Potassium Chromate

· NIOSH-Ca (National Institute for Occupational Safety and Health)

CAS: 7789-00-6 Potassium Chromate

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· Signal word Danger

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A1

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(Contd. of page 8) Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of water. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. 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. **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 Creation date for SDS 01-27-2015 . STN 09-14-2017: review SDS for accuracy. STN 09/14/2017 / -· Abbreviations and acronvms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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
- Skin Sens. 1: Skin sensitisation Category 1
- Muta. 1B: Germ cell mutagenicity Category 1B
- Carc. 1A: Carcinogenicity Category 1A