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Reviewed on 06/03/2024

## **1** Identification · Product identifier · Trade name: Potassium Chromate 5% w/v Indicator Solution • Article number: TEN068 · 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 · Classification of the substance or mixture GHS08 Health hazard Germ Cell Mutagenicity 1B H340 May cause genetic defects. Carcinogenicity 1A H350 May cause cancer. GHS07 Sensitization - Skin 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 GHS07 GHS08 · 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.

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#### Trade name: Potassium Chromate 5% w/v Indicator Solution

	(Contd. of page 1)
· 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	
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 regulation	<i>S</i> .
· Classification system:	
· NFPA ratings (scale 0 - 4)	
$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} \begin{array}{c} Health = 0 \\ Fire = 0 \\ Reactivity = 0 \end{array}$	
· HMIS-ratings (scale 0 - 4)	
HEALTH 2 $Health = 2$	
FIRE 0 $Fire = 0$	
$\frac{1}{\text{REACTIVITY[0]}} Reactivity = 0$	
· Other hazards	
· Results of PBT and vPvB assessment	
• <b>PBT:</b> Not applicable.	
· <b>vPvB:</b> 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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4.846%

95.154%

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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:
- 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.
- · 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/m <sup>3</sup>
· PAC-2:	
CAS: 7789-00-6 Potassium Chromate	9.7 mg/m <sup>3</sup>
• PAC-3:	
CAS: 7789-00-6 Potassium Chromate	58 mg/m <sup>3</sup>

## 7 Handling and storage

· Handling:

- $\cdot$  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.

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• *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

· Components with limit values that require monitoring at the workplace:

CAS: 7789-00-6 Potassium Chromate

PEL Long-term value: 0.005\* mg/m<sup>3</sup> Ceiling limit value: 0.1\*\* mg/m<sup>3</sup> \*as Cr(VI) \*\*as CrO3; see 29 CFR 1910.1026

*REL Long-term value: 0.0002 mg/m<sup>3</sup>* as Cr; See Pocket Guide Apps. A and C

TLV Short-term value: 0.0005 mg/m<sup>3</sup> Long-term value: 0.0002 mg/m<sup>3</sup> as Cr(VI); A1;inhalable, Skin;BEI, DSEN, RSEN

· Ingredients with biological limit values:

CAS: 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)

• Additional information: The lists that were valid during the creation were used as basis.

#### · Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation (Contd. on page 5)

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· Material of gloves

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. • 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

## 9 Physical and chemical properties

Appearance:		
Form:	Liquid	
Color:	Light yellow	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	0 °C (32 °F)	
<b>Boiling point/Boiling range:</b>	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):	1.03168 g/cm <sup>3</sup> (8.60937 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	

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· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
• Solvent content: Water: VOC content:	95.2 % 0.00 % 0.0 g/l / 0.00 lb/gal	
Solids content:	4.8 %	
· 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.
- · 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 3,714 mg/kg (mouse)

- · Primary irritant effect:
- on the skin: No irritant effect.
- 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.

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## **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 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, IMDG, IATA	UN3082
UN proper shipping name DOT	Environmentally hazardous substance, liquid, n.o.s. (Potassiur Chromate)
· IMDG, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (Potassium Chromate)
Transport hazard class(es)	
·DOT	
· Class	9 Miscellaneous dangerous substances and articles
· Class	9 Miscellaneous dangerous substances and articles (Contd. c

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Label	9
IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles
· Label	9
· Packing group · DOT, IMDG, IATA	111
Environmental hazards: Marine pollutant: Special marking (IATA):	No Symbol (fish and tree) Symbol (fish and tree)
<ul> <li>Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> <li>Stowage Category</li> </ul>	Warning: Miscellaneous dangerous substances and articles 90 F-A,S-F A
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information: · DOT · Remarks:	Not regulated
IMDG Limited quantities (LQ) Excepted quantities (EQ) Remarks:	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml Not regulated
· IATA	
Remarks:	Not regulated
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (POTASSIUM CHROMATE), 9, III

## **15 Regulatory information**

 $\cdot$  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

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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 EFA (Environmental Protection Agency) CAS: 7789-00-6 Potassium Chromate Carcinogenic categories EFA (Environmental Protection Agency) CAS: 7789-00-6 Potassium Chromate CAS: 77		ACTIV
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         Chemicals known to cause developmental toxicity:         CAS: 7789-00-6   Potassium Chromate         Carcinogenic categories         EPA (Environmental Protection Agency)         CAS: 7789-00-6   Potassium Chromate         CAS: 7789-00-6   Potassium Chromate         NOSH-Ca (National Institute for Occupational Safety and Health)         CAS: 7789-00-6   Potassium Chromate         MIOSH-Ca (National Institute for Occupational Safety and Health)         CAS: 7789-00-6   Potassium Chromate         Milaard pictograms         VV         VI         GHS 1080         GHS 008         Signal word Danger         Hazard-determining components of labeling:         Protassium Chromate         Hazard statements         May cause genetic defects.         May cause genetic defects.         May cause genetic de	Hazardous Air Pollutants	<b>t</b>
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Carcinogenic categories         EPA (Environmental Protection Agency)         CAS: 7789-00-6       Potassium Chromate         TLV (Threshold Limit Value)         CAS: 7789-00-6       Potassium Chromate         NIOSH-Ca (National Institute for Occupational Safety and Health)         CAS: 7789-00-6       Potassium Chromate         MIOSH-Ca (National Institute for Occupational Safety and Health)         CAS: 7789-00-6       Potassium Chromate         GHS labet elements The product is classified and labeled according to the Globally Harmonized System (GHS)         Hazard pictograms         V       V         V       V         GHS 07       GHS08         Signal word Danger         Hazard-determining components of labeling:         Potassium Chromate         Hazard-determining components of labeling:         Potassium Chromate         May cause genetic defects.         May cause genetic defects.         May cause genetic defects.         Potastiming 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.		
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Printing date 06/03/2024

· National regulations:

Reviewed on 06/03/2024

Trade name: Potassium Chromate 5% w/v Indicator Solution

(Contd. of page 9)

US

• Additional classification according to Decree on Hazardous Materials: Carcinogenic hazardous material group III (dangerous).
<ul> <li>Information about limitation of use:</li> <li>Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.</li> <li>Exceptions can be made by the authorities in certain cases.</li> <li>Chemical safety assessment: A Chemical Safety Assessment has not been carried out.</li> </ul>
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.
<ul> <li>Department issuing SDS: Environment protection department.</li> <li>Contact: Date of Preparation / Last Revision:</li> <li>Date of preparation / last revision Revision 1.2, 06/03/2024: Reviewed SDS for accuracy. MH/STN 06/03/2024</li> <li>Abbreviations and acronyms:</li> </ul>

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 Sensitization - Skin 1: Skin sensitisation - Category 1 Germ Cell Mutagenicity 1B: Germ cell mutagenicity – Category 1B Carcinogenicity 1A: Carcinogenicity - Category 1A  $\cdot$  \* Data compared to the previous version altered.