

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/28/2021

Reviewed on 05/28/2021

## 1 Identification

- **Product identifier**
- **Trade name:** Acid Wash Color Std. #9  
Prepared to ASTM D848-18
- **Article number:** 01509
- **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](mailto: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

Muta. 1B H340 May cause genetic defects.

Carc. 1B H350 May cause cancer.



GHS07

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**



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

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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 = 2  
 Fire = 0  
 Reactivity = 0

The substance possesses oxidizing properties.

- **HMIS-ratings (scale 0 - 4)**

HEALTH	2	Health = 2
FIRE	0	Fire = 0
REACTIVITY	0	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	5.841%
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· **Table of Nonhazardous Ingredients**

CAS: 7732-18-5	Water	94.127%
CAS: 7778-50-9	Potassium Dichromate	0.032%

### 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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- **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	0.56 mg/m <sup>3</sup>
CAS: 7778-50-9	Potassium Dichromate	0.42 mg/m <sup>3</sup>

- **PAC-2:**

CAS: 7789-00-6	Potassium Chromate	9.7 mg/m <sup>3</sup>
CAS: 7778-50-9	Potassium Dichromate	7.4 mg/m <sup>3</sup>

- **PAC-3:**

CAS: 7789-00-6	Potassium Chromate	58 mg/m <sup>3</sup>
CAS: 7778-50-9	Potassium Dichromate	44 mg/m <sup>3</sup>

## 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.

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- **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 item 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 CrO <sub>3</sub> ; 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); 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.

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*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

· **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

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

<b>Form:</b>	Liquid
<b>Color:</b>	Yellow-orange
<b>Odor:</b>	Odorless
<b>Odor threshold:</b>	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	100 °C (212 °F)

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not applicable.

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

· **Vapor pressure at 20 °C (68 °F):** 23 hPa (17.3 mm Hg)

· **Density at 20 °C (68 °F):** 1.03865 g/cm<sup>3</sup> (8.66753 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.

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· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Water:</b>	94.1 %
<b>VOC content:</b>	0.00 %
	0.0 g/l / 0.00 lb/gal
<b>Solids content:</b>	5.9 %
· <b>Other information</b>	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	3,082 mg/kg (mouse)
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**CAS: 7789-00-6 Potassium Chromate**

Oral	LD50	100 mg/kg (ATE)
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- **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	I
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CAS: 7778-50-9	Potassium Dichromate	I
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- **NTP (National Toxicology Program)**

CAS: 7789-00-6	Potassium Chromate	K
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CAS: 7778-50-9	Potassium Dichromate	K
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· **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.

## 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.

## 14 Transport information

- |                                  |   |
|----------------------------------|---|
| · <b>UN-Number</b>               |   |
| · <b>DOT, IMDG, IATA</b>         | UN3139  |
| · <b>UN proper shipping name</b> |   |
| · <b>DOT</b>                     | Oxidizing liquid, n.o.s. (Potassium Chromate, Potassium Dichromate)                   |
| · <b>IMDG</b>                    | OXIDIZING LIQUID, N.O.S. (Potassium Chromate, Potassium Dichromate), MARINE POLLUTANT |
| · <b>IATA</b>                    | OXIDIZING LIQUID, N.O.S. (Potassium Chromate, Potassium Dichromate)                   |

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· **Transport hazard class(es)**

· **DOT**



· **Class**

5.1 Oxidizing substances

· **Label**

5.1

· **IMDG**



· **Class**

5.1 Oxidizing substances

· **Label**

5.1

· **IATA**



· **Class**

5.1 Oxidizing substances

· **Label**

5.1

· **Packing group**

· **DOT, IMDG, IATA**

III

· **Environmental hazards:**

Product contains environmentally hazardous substances:  
Potassium Chromate

· **Marine pollutant:**

Yes  
Symbol (fish and tree)

· **Special precautions for user**

Warning: Oxidizing substances

· **Hazard identification number (Kemler code):** 51

· **EMS Number:**

F-A,S-Q

· **Stowage Category**

B

· **Segregation Code**

SG38 Stow "separated from" SGG2-ammonium compounds.  
SG49 Stow "separated from" SGG6-cyanides  
SG60 Stow "separated from" SGG16-peroxides

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **IMDG**

· **Limited quantities (LQ)**

5L

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

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· **UN "Model Regulation":** *UN 3139 OXIDIZING LIQUID, N.O.S. (POTASSIUM CHROMATE, POTASSIUM DICHROMATE), 5.1, III*

## 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

CAS: 7778-50-9 Potassium Dichromate

· **TSCA (Toxic Substances Control Act):**

Water	ACTIVE
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Potassium Chromate	ACTIVE
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Potassium Dichromate	ACTIVE
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· **Hazardous Air Pollutants**

CAS: 7789-00-6 Potassium Chromate

CAS: 7778-50-9 Potassium Dichromate

· **Proposition 65**

· **Chemicals known to cause cancer:**

CAS: 7789-00-6 Potassium Chromate

CAS: 7778-50-9 Potassium Dichromate

· **Chemicals known to cause reproductive toxicity for females:**

CAS: 7789-00-6 Potassium Chromate

CAS: 7778-50-9 Potassium Dichromate

· **Chemicals known to cause reproductive toxicity for males:**

CAS: 7789-00-6 Potassium Chromate

CAS: 7778-50-9 Potassium Dichromate

· **Chemicals known to cause developmental toxicity:**

CAS: 7789-00-6 Potassium Chromate

CAS: 7778-50-9 Potassium Dichromate

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

CAS: 7789-00-6 Potassium Chromate	A(inh), D(oral), K/L(inh), CBD(oral)
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CAS: 7778-50-9 Potassium Dichromate	A(inh), D(oral), K/L(inh), CBD(oral)
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· **TLV (Threshold Limit Value)**

CAS: 7789-00-6 Potassium Chromate	AI
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CAS: 7778-50-9 Potassium Dichromate	AI
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· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

CAS: 7789-00-6 Potassium Chromate

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CAS: 7778-50-9 Potassium Dichromate

- **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.*
- **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 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**  
*Revision 2.0, 01-12-2020: Updated sections 1, 2 and 15 to meet Fanns new requirements*  
*05/28/2021 / 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*

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*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. 1B: Carcinogenicity – Category 1B*

· **\* Data compared to the previous version altered.**

US