# Safety Data Sheet acc. to OSHA HCS

Printing date 05/31/2024

Reviewed on 05/31/2024

Product identifier	
Trade name: Sodium Chromate 2% w/v Solution	
Article number: SPX427	
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	AQUA SOLUTIONS
Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666	
Hazard(s) identification	
Classification of the substance or mixture	
GHS06 Skull and crossbones	
Acute Toxicity - Inhalation 2	H330 Fatal if inhaled.
GHS08 Health hazard	
Sensitization - Respiratory 1	H334 May cause allergy or asthma symptoms breathing difficulties if inhaled.
Germ Cell Mutagenicity 1B	H340 May cause genetic defects.
Carcinogenicity 1B	H350 May cause cancer.
	H360 May damage fertility or the unborn child.
Toxic to Reproduction 1B	
Toxic to Reproduction 1B Specific Target Organ Toxicity - Repeated Exposure 1	H372 Causes damage to organs through prolonged repeated exposure.
-	· · · · ·
Specific Target Organ Toxicity - Repeated Exposure 1	· · · · ·
Specific Target Organ Toxicity - Repeated Exposure 1	repeated exposure.
Specific Target Organ Toxicity - Repeated Exposure 1 GHS07 Acute Toxicity - Oral 4	repeated exposure. H302 Harmful if swallowed.
Specific Target Organ Toxicity - Repeated Exposure 1 GHS07 Acute Toxicity - Oral 4 Skin Irritation 2	repeated exposure. H302 Harmful if swallowed. H315 Causes skin irritation.

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(Contd. of page 1) · Hazard pictograms GHS06 GHS08 · Signal word Danger · Hazard-determining components of labeling: Sodium Chromate · Hazard statements Harmful if swallowed. Fatal if inhaled. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause genetic defects. May cause cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe 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. [In case of inadequate ventilation] wear respiratory protection. If swallowed: Call a poison center/doctor if you feel unwell. 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. Immediately call a poison center/doctor. IF exposed or concerned: Get medical advice/attention. Specific treatment is urgent (see on this label). Get medical advice/attention if you feel unwell. Rinse mouth. 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. If experiencing respiratory symptoms: Call a poison center/doctor. 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. (Contd. on page 3)

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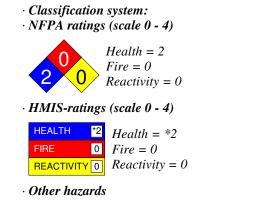
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2.0%

98.0%



· 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: 10034-82-9 Sodium 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.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

• After inhalation:

Supply fresh air or oxygen; call for 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.

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#### **5** *Fire-fighting measures*

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- $\cdot$  Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

#### **6** Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.* • *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 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
- Frolective Action Crueria for Ch

• PAC-1:

CAS: 10034-82-9 Sodium Chromate

· PAC-2:

CAS: 10034-82-9 Sodium Chromate

· PAC-3:

CAS: 10034-82-9 Sodium Chromate

#### 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.

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 $0.87 \, mg/m^3$ 

 $15 mg/m^3$ 

91 mg/ $m^3$ 

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#### 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: 10034-82-9 Sodium Chromate

ACGIH TLVShort-term value: 0.03 mg/m³Ceiling limit value0.1 mg/m³0.1OSHA PELShort-term value: 0.005 mg/m³

Ceiling limit value 0.1 mg/m<sup>3</sup>0.1

#### · Ingredients with biological limit values:

CAS: 10034-82-9 Sodium Chromate

TOTAL CHROMIUM 25 ug/L

*Time: end of shift at end of work week LD50: Total Chromium* 

• 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. Avoid contact with the eyes and skin.

• 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  $\cdot$  **Material of gloves** 

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.

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• Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and c	chemical properties	
General Information		
Appearance:		
Form: Color:	Liquid 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):	1.03396 g/cm³ (8.6284 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	p <b>r):</b> Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	98.0 %	
VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal	

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Solids content:

· 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.

2.0 %

## **11 Toxicological information**

· Information on toxicological effects

• Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

#### ATE (Acute Toxicity Estimate)

	LD50	650 mg/kg (rat)
Dermal	LD50	21,300 mg/kg (rabbit)
Inhalative	LC50/4h	1.65 mg/l (rat)

#### · Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- · Sensitization:
- Sensitization possible through inhalation.
- Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Toxic

- Harmful Irritant Very toxic
- The product can cause inheritable damage.

<sup>·</sup> Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
CAS: 10034-82-9 Sodium Chromate	1 Group 1
· NTP (National Toxicology Program)	
CAS: 10034-82-9 Sodium Chromate	Known to be a Human Carcinogen
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the incredients is listed	

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 3 (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely 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.

UN-Number DOT, IMDG, IATA	UN3287
	0113207
UN proper shipping name DOT IMDG, IATA	Toxic liquid, inorganic, n.o.s. (Sodium Chromate) TOXIC LIQUID, INORGANIC, N.O.S. (Sodium Chromate)
Transport hazard class(es)	~ , , , , , , , , , , , , , , , , , , ,
DOT	
TOXIC 6	
Class	6.1 Toxic substances
Label	6.1

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IMDG, IATA	
Class	6.1 Toxic substances
Label	6.1
Packing group DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Toxic substances
Hazard identification number (Kemler code	): 60
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: 5 L
2	On cargo aircraft only: 60 L
IMDG	
Limited quantities (LQ)	100 ml
Excepted quantities $(EQ)$	Code: E4
	Maximum net quantity per inner packaging: 1 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 3287 TOXIC LIQUID, INORGANIC, N.O.S. (SODIUM CHROMATE), 6.1, II

# **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):	
None of the ingredients is listed.	
· TSCA (Toxic Substances Control Act):	
Water	ACTIVE
· Hazardous Air Pollutants	
None of the ingredients is listed.	
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# · Proposition 65

# $\cdot$ Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

 $\cdot$  Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

#### · Carcinogenic categories

#### · EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

None of the ingredients is listed.

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

None of the ingredients is listed.

• *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: Sodium Chromate · Hazard statements Harmful if swallowed. Fatal if inhaled. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause genetic defects. May cause cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe 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. [In case of inadequate ventilation] wear respiratory protection.

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	(Contd. of page 10) If swallowed: Call a poison center/doctor if you feel unwell.
	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.
	Immediately call a poison center/doctor.
	IF exposed or concerned: Get medical advice/attention.
	Specific treatment is urgent (see on this label).
	Get medical advice/attention if you feel unwell.
	Rinse mouth.
	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.
	If experiencing respiratory symptoms: Call a poison center/doctor.
	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.
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 1.2, 05/31/2024: Reviewed SDS for accuracy. MH/STN
	Revision 1.2, 05/57/2024: Reviewed 5D5 for accuracy. MINSTA
	05/31/2024

· 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

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REL: Recommended Exposure Limit BEI: Biological Exposure Limit Acute Toxicity - Oral 4: Acute toxicity – Category 4 Acute Toxicity - Inhalation 2: Acute toxicity – Category 2 Skin Irritation 2: Skin corrosion/irritation – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A Sensitization - Respiratory 1: Respiratory sensitisation – Category 1 Sensitization - Skin 1: Skin sensitisation – Category 1 Germ Cell Mutagenicity 1B: Germ cell mutagenicity – Category 1B Carcinogenicity 1B: Carcinogenicity – Category 1B Toxic to Reproduction 1B: Reproductive toxicity – Category 1B Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1 • \* Data compared to the previous version altered.

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