Printing date 09/19/2017

Reviewed on 09/19/2017

ONS

# **1 Identification**

- · Product identifier
- · Trade name: Sodium Chromate, Reagent Grade Crystal
- Article number: S2717
- CAS Number: 10034-82-9
- EC number:
- 231-889-5 • Index number:
- 024-018-00-3
- 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	n of the substance or mixture
GH	ISO6 Skull and crossbones
Acute Tox. 3	H301 Toxic if swallowed.
Acute Tox. 2	H330 Fatal if inhaled.
GH	IS08 Health hazard
Resp. Sens. 1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Muta. 1B	H340 May cause genetic defects.
Carc. 1B	H350 May cause cancer.
Repr. 1B	H360 May damage fertility or the unborn child.
STOT RE 1	H372 Causes damage to organs through prolonged or repeated exposure.
GH	IS05 Corrosion
Skin Corr. 1B	H314 Causes severe skin burns and eye damage.
	H318 Causes serious eye damage.
	ISO7
×	(Contd. on page 2)

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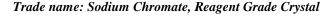
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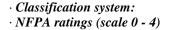
GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GH         Hazard pictograms         Image: Pictor Pi		(Contd. of pag
Label elements         GHS label elements         GHS label elements         Hazard pictograms         Version       Version         GHS 05       GHS 06         GHS 05       GHS 06         GHS 05       GHS 06         Signal word Danger         Hazard statements         Toxic (1 swallowed)         Harmful in contact with skin.         Fatail if inhaled.         Causes severe skin burns and eye damage.         May cause genetic defects.         Do not statistructions before use.         Do not statistructions before use.         Do not structions before use.         Do not structions before use.         Do not structions continuous fully product.         Use only outdoors or in a well-ventilated area.         Contaminated work clothing must not be allowed out of the workplace.         Avoid release to the environment.         Wear protective glowes/protective clothing/eye protection/face protection.         If residued work clothing must not be allowed out of the workplace.         Avoid release to the environment.         Wear protective glowes		
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Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.		
Dispose of contents/container in accordance with local/regional/national/international regulations.		
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	Dispose of contents/container in accordance with local/regional/national/intern	ational regulations. (Contd. on pag

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HEALTH\*4Health = \*4FIRE0Fire = 0REACTIVITY0Reactivity = 0

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

• **vPvB:** Not applicable.

## 3 Composition/information on ingredients

- Chemical characterization: Substances
- · CAS No. Description
- 10034-82-9 Sodium Chromate
- Identification number(s)
- EC number: 231-889-5
- Index number: 024-018-00-3

## 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. Then consult a doctor.
- After swallowing:
- Do not induce vomiting; immediately call for medical help.
- Drink copious amounts of water and provide fresh air. 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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Trade name: Sodium Chromate, Reagent Grade Crystal

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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.
- Wear protective equipment. Keep unprotected persons away.
- · 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.
- $\cdot$  Methods and material for containment and cleaning up:

Use neutralizing agent. 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:** 0.87 mg/m3
- PAC-2: 15 mg/m3
- PAC-3: 91 mg/m3

## 7 Handling and storage

- · Handling:
- · Precautions for safe handling
- Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

• 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 item 7.

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· Control parameter
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Connot parameters		
· Components with limit values that require monitoring at the workplace:		
CAS: 10034-82-9 Sodium Chromate		
ACGIH TLV	Short-term value: 0.03 mg/m <sup>3</sup>	
Ceiling limit value	0.1 mg/m <sup>3</sup> 0.1	
OSHA PEL	Short-term value: 0.005 mg/m <sup>3</sup>	
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.

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 • 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.

#### · 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

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## Trade name: Sodium Chromate, Reagent Grade Crystal

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Information on basic physical and	chamical properties
General Information	inemical properties
Appearance:	
Form:	Crystal or powder
Color:	Yellow
· Odor:	Odorless
• Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/Melting range:	20 °C (68 °F)
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.
· Flammability (solid, gaseous):	Product is not flammable.
· Ignition temperature:	
Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not applicable.
• Density at 20 •C (68 •F):	2.698 g/cm <sup>3</sup> (22.515 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
Water at 25 •C (77 •F):	84.5 g/l
Partition coefficient (n-octanol/wat	er): Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
• 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.

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· 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:

Oral	LD50	13 mg/kg (rat)
Dermal	LD50	426 mg/kg (rabbit)
Inhalative	LC50/4 h	0.033 mg/l (rat)

### · Primary irritant effect:

• on the skin: Caustic effect on skin and mucous membranes.

 $\cdot$  on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

• Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

· Additional toxicological information:

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) 1 Group 1
- · NTP (National Toxicology Program) Known to be a Human Carcinogen
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not 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: Must not reach bodies of water or drainage ditch undiluted or unneutralized.
- · 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.

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# Safety Data Sheet acc. to OSHA HCS

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# Trade name: Sodium Chromate, Reagent Grade Crystal

Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

Transport information	
UN-Number DOT, IMDG, IATA	UN3288
UN proper shipping name DOT IMDG, IATA	Toxic solid, inorganic, n.o.s. (Sodium Chromate) TOXIC SOLID, INORGANIC, N.O.S. (Sodium Chromate)
Transport hazard class(es)	
DOT	
TOXIC	
Class Label	6.1 Toxic substances 6.1
IMDG, IATA	
Class Label	6.1 Toxic substances 6.1
Packing group DOT, IMDG, IATA	11
Environmental hazards: Marine pollutant:	Environmentally hazardous substance, solid No
Special precautions for user	Warning: Toxic substances
Poison inhalation hazard:	No
Danger code (Kemler):	6.1 E A C A
EMS Number: Stowage Category	F-A,S-A B
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
Transport/Additional information:	
DOT Quantity limitations	On passenger aircraft/rail: 100 kg On cargo aircraft only: 200 kg
IMDG Limited quantities (LQ)	5 kg

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Trade name: Sodium Chromate, Reagent Grade Crystal

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· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· UN "Model Regulation":	UN 3288 TOXIC SOLID, INORGANIC, N.O.S. (SODIUM CHROMATE), 6.1, II

## **15 Regulatory information**

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

- Section 355 (extremely hazardous substances): Substance is not listed.
- · Section 313 (Specific toxic chemical listings): Substance is not listed.
- · TSCA (Toxic Substances Control Act): Substance is not listed.

· Proposition 65

- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.

· Carcinogenic categories

- · EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value established by ACGIH) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms



GHS06

· Signal word Danger · Hazard statements Toxic if swallowed. Harmful in contact with skin. Fatal if inhaled. Causes severe skin burns and eye damage. 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. Do not get in eyes, on skin, or on clothing. 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.

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## Trade name: Sodium Chromate, Reagent Grade Crystal

Trade name. Souram Enromate, Reagent Grade Crystal	
	(Contd. of page 9)
Avoid release to the environment.	(Conta. of page ))
Wear protective gloves/protective clothing/eye protection/face protection.	
[In case of inadequate ventilation] wear respiratory protection.	
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.	
If swallowed: Rinse mouth. Do NOT induce vomiting.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/s	hower.
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 p	resent and easy to do.
Continue rinsing.	
Specific treatment is urgent (see on this label).	
If skin irritation or rash occurs: Get medical advice/attention.	
Wash contaminated clothing before reuse.	
Collect spillage.	
Store in a well-ventilated place. Keep container tightly closed.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regional/	uations.
· National regulations:	
• Additional classification according to Decree on Hazardous Materials:	
Carcinogenic hazardous material group I (extremely dangerous).	
Carcinogenic hazardous material group II (very dangerous).	
Carcinogenic hazardous material group III (dangerous).	
Workers are not allowed to be exposed to this hazardous material. Exceptions can be mad certain cases. • <b>Chemical safety assessment:</b> A Chemical Safety Assessment has not been carried out.	le by the authorities in
16 Other information	
This information is based on our present knowledge. However, this shall not constitut specific product features and shall not establish a legally valid contractual relationship.	e a guarantee for any
• Department issuing SDS: Environment protection department.	
$\cdot$ Contact:	
· Date of preparation / last revision	
Revision 0.2, 09-19-2017: revised shipping PG to II from III per new information. STN	
Revision 0.0, 06/22/2016: Creation date for SDS. STN	
Revision 0.1 06-29-2017: revised UN from 3290 to 3288, and DOT PG from II to III, and	d removed skin allergy
caution based on manufacturers SDS. DL 09/19/2017 / -	
· Abbreviations and acronyms:	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement co	oncerning 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 CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	

50: 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

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## Trade name: Sodium Chromate, Reagent Grade Crystal

(Contd. of page 10) PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 2: Acute toxicity – Category 2 Skin Corr. 1B: Skin corrosion/irritation – Category 1B Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Resp. Sens. 1: Respiratory sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Muta. 1B: Germ cell mutagenicity – Category 1B Carc. 1B: Carcinogenicity – Category 1B Repr. 1B: Reproductive toxicity – Category 1B STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1