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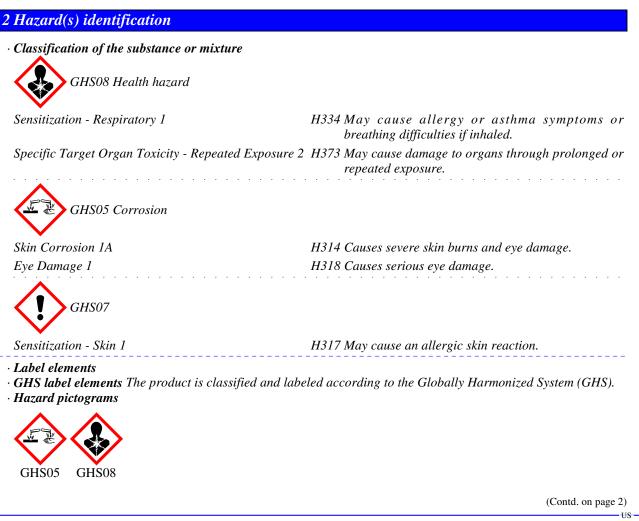
Reviewed on 06/03/2024

1 Identification

- · Product identifier
- · Trade name: Color Standard 500 Units APHA for Hazen Color/ASTM D1209
- Article number: UC046
- · 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



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Trade name: Color Standard 500 Units APHA for Hazen Color/ASTM D1209

Signal word Danger	(Contd. of page 1)
Hazard-determining components of labeling:	
Hydrochloric Acid	
Potassium Platinum Chloride	
Hazard statements	
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 damage to organs through prolonged or repeated exposure.	
Precautionary statements	
Do not breathe dusts or mists.	
Wash thoroughly after handling.	
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: Rinse mouth. Do NOT induce vomiting.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water	/shower.
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.
<i>Continue rinsing.</i>	I
Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Get medical advice/attention if you feel unwell.	
If skin irritation or rash occurs: Get medical advice/attention.	
If experiencing respiratory symptoms: Call a poison center/doctor.	
Wash contaminated clothing before reuse.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international re	equiations.
Classification system:	8
NFPA ratings (scale 0 - 4)	
Health = 3	
Fire = 0	
3 0 Reactivity = 0	
HMIS-ratings (scale 0 - 4)	
HEALTH *3 $Health = *3$	
FIRE 0 $Fire = 0$	
REACTIVITY \bigcirc <i>Reactivity</i> = 0	
Other hazards	
Results of PBT and vPvB assessment	
PBT: Not applicable.	
vPvB: Not applicable.	
Composition/information on ingredients	
composition information on instructures	

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

*

CAS: 7647-01-0 Hydrochloric Acid

11.315% (Contd. on page 3)

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CAS: 16921-30-5	Potassium Platinum Chloride	(Contd. of page 2)
	ardous Ingredients	0.125 %
CAS: 7732-18-5	Water	88.464%
CAS: 7791-13-1	Cobalt Chloride Hexahydrate	0.098%

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.

• 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. Then consult a doctor.
- After swallowing: 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.

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
- 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: 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). Use neutralizing agent. 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.

(Contd. on page 4)

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· Protective Action Criteria for Chemicals	(Contd. of page 3)
· PAC-1:	
CAS: 7647-01-0 Hydrochloric Acid	1.8 ppm
CAS: 7791-13-1 Cobalt Chloride Hexahydrate	0.24 mg/m ³
· PAC-2:	
CAS: 7647-01-0 Hydrochloric Acid	22 ppm
CAS: 7791-13-1 Cobalt Chloride Hexahydrate	25 mg/m ³
· PAC-3:	
CAS: 7647-01-0 Hydrochloric Acid	100 ppm
CAS: 7791-13-1 Cobalt Chloride Hexahydrate	150 mg/m ³

7 Handling and storage

· Handling:

• *Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.*

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.

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: 7647-01-0 Hydrochloric Acid		
NIOSH RECOMENDED EXP LIMI	Ceiling limit value: 7.0 mg/m3 mg/m ³	
PEL	Ceiling limit value: 7 mg/m ³ , 5 ppm	
REL	Ceiling limit value: 7 mg/m³, 5 ppm	
TLV	Ceiling limit value: 2 ppm A4	
CAS: 16921-30-5 Potassium Platinum Chloride		
PEL	Long-term value: 0.002 mg/m ³ as Pt	
REL	Long-term value: 0.002 mg/m ³ as Pt	
TLV	Long-term value: 0.002 mg/m³ as Pt	
• Additional information: The lists that were valid during the creation were used as basis.		
	(Contd. on page 5)	

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· Exposure controls

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(Contd. of page 4)

xposure controis
ersonal protective equipment:
eneral protective and hygienic measures:
eep away from foodstuffs, beverages and feed.
nmediately remove all soiled and contaminated clothing.
Vash hands before breaks and at the end of work.
tore protective clothing separately.
void contact with the eyes.
void contact with the eyes and skin.
reathing equipment:
a case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use espiratory protective device that is independent of circulating air.
rotection of hands:
Protective gloves
he glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
the to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the hemical mixture.
election of the glove material on consideration of the penetration times, rates of diffusion and the degradation
laterial of gloves
he selection of the suitable gloves does not only depend on the material, but also on further marks of quality and aries 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.
enetration time of glove material
he exact break through time has to be found out by the manufacturer of the protective gloves and has to be bserved.
ye protection:
Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and General Information Appearance:	chemical properties	
Form:	Liquid	
Color:	Yellow-brown	
Odor:	Odorless	
Odor threshold:	Not determined.	
<i>pH-value at 20 °C (68 °F):</i>	<2	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	

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		(Contd. of page 5)
· 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):	1.01637 g/cm ³ (8.48161 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	e r): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	88.5 %	
VOC content:	0.00~%	
	0.0 g/l / 0.00 lb/gal	
Solids content:	0.2 %	
· 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.

(Contd. on page 7)

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Trade name: Color Standard 500 Units APHA for Hazen Color/ASTM D1209

(Contd. of page 6)

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 81,566 mg/kg

· Primary irritant effect:

• on the skin: Strong caustic effect on skin and mucous membranes.

• 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:

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

Corrosive

Irritant

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)* CAS: 7791-13-1 Cobalt Chloride Hexahydrate

ens. 7771 15 1 Cobuit Chioriae Hexariya

· NTP (National Toxicology Program)

None of the ingredients is listed.

· 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 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. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

2B

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Trade name: Color Standard 500 Units APHA for Hazen Color/ASTM D1209

(Contd. of page 7)

· 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	UN3264
	0115204
· UN proper shipping name	
	Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric Acid)
· IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.C (Hydrochloric Acid)
	(Hydrochione Acia)
• Transport hazard class(es)	
·DOT	
CORROSIVE	
8	
· Class	8 Corrosive substances
· Label	8
8	
· Class	8 Corrosive substances
·Label	8
· Packing group	
\cdot DOT, IMDG, IATA	II
· Environmental hazards:	
• Marine pollutant:	No
<u>^</u>	
• Special precautions for user	Warning: Corrosive substances
• Hazard identification number (Keml	
· EMS Number:	F-A,S-B (SCC1) Acida
· Segregation groups	(SGG1) Acids B
· Stowage Category	

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	(Contd. of page a
Segregation Code	SG36 Stow "separated from" SGG18-alkalis.
	SG49 Stow "separated from" SGG6-cyanides
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: 1 L
	On cargo aircraft only: 30 L
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S (HYDROCHLORIC ACID), 8, II

15 Regulatory information

*

· Safety, health and environmental regulations/legislation specific for the substance or mixture
No further relevant information available.
· Sara

• Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
CAS: 7791-13-1 Cobalt Chloride Hexahydrate	
· TSCA (Toxic Substances Control Act):	
Water	ACTIV
Hydrochloric Acid	ACTIV
Potassium Platinum Chloride	ACTIV
· Hazardous Air Pollutants	
CAS: 7647-01-0 Hydrochloric Acid	
CAS: 7791-13-1 Cobalt Chloride Hexahydrate	
· Proposition 65	
· 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.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	

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• (Carcinog	enic	categor	ies
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· 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: Hydrochloric Acid Potassium Platinum Chloride · Hazard statements 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 damage to organs through prolonged or repeated exposure. · Precautionary statements Do not breathe dusts or mists. Wash thoroughly after handling. 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: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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. Specific treatment (see on this label). Get medical advice/attention if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If experiencing respiratory symptoms: Call a poison center/doctor. Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

• 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.

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Trade name: Color Standard 500 Units APHA for Hazen Color/ASTM D1209

	(Contd. of page 10)
· Contact:	
Date of Preparation / Last Revision:	
Date of preparation / last revision	
Revision 1.2, 06/03/2024: Reviewed SDS for accuracy. MH/STN	
Creation date for SDS 12-07-2018. STN	
06/03/2024	
· 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	
REL: Recommended Exposure Limit	
Skin Corrosion 1A: Skin corrosion/irritation – Category 1A	
Eye Damage 1: Serious eye damage/eye irritation – Category 1	
Sensitization - Respiratory 1: Respiratory sensitisation – Category 1	
Sensitization - Skin 1: Skin sensitisation – Category 1	
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2	
* Data compared to the previous version altered.	
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