Printing date 05/27/2021

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### **1** Identification

- · Product identifier
- Trade name: <u>Chloride Standard</u> 500 mg/kg in P-xylene
- Article number: CG032
- 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 • Emergency telephone number:
- *Chemtrec:* 800-424-9300 *Canutec:* 613-996-6666

## **2** *Hazard*(*s*) *identification*

· Classification of the substance or mixture



Flam. Liq. 3 H226 Flammable liquid and vapor.



Acute Tox. 4 H312 Harmful in contact with skin. Acute Tox. 4 H332 Harmful if inhaled. Skin Irrit. 2 H315 Causes skin irritation.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



· Signal word Warning

 Hazard-determining components of labeling: p-Xylene
 Hazard statements

Flavora statements

Flammable liquid and vapor. Harmful in contact with skin or if inhaled.

Causes skin irritation.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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Keep container tightly closed.	
Ground/bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Avoid breathing dust/fume/gas/mist/vapors/spray	
Wash thoroughly after handling.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
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.	
Call a poison center/doctor if you feel unwell.	
Specific treatment (see on this label).	
Take off contaminated clothing and wash it before reuse.	
If skin irritation occurs: Get medical advice/attention.	
In case of fire: Use for extinction: CO2, powder or water spray.	
Store in a well-ventilated place. Keep cool.	
Dispose of contents/container in accordance with local/regional/national/international regulation	<i>lS</i> .
· Classification system:	
· NFPA ratings (scale 0 - 4)	
$\begin{array}{c} Health = 1 \\ Fire = 3 \\ Reactivity = 0 \end{array}$	
· HMIS-ratings (scale 0 - 4)	
HEALTH1Health = 1FIRE3Fire = 3REACTIVITY0Reactivity = 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: 106-42-3 p-Xylene	99.92%
Table of Nonhazardous Ingredients	

0.08%

- Description of first aid measures General information:

4 First-aid measures

Immediately remove any clothing soiled by the product.

CAS: 88-06-2 2,4,6-Trichlorophenol, 98% w/w, Reagent Grade Crystal

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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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. 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.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

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

- · Extinguishing media
- Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

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

- *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.*
- Environmental precautions: 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

1 / 0/00/07 210/	on chicharjon chemicais
· PAC-1:	
CAS: 88-06-2	2,4,6-Trichlorophenol, 98% w/w, Reagent Grade Crystal
· PAC-2:	
CAS: 88-06-2	2,4,6-Trichlorophenol, 98% w/w, Reagent Grade Crystal
 DAC 2.	

· PAC-3:

CAS: 88-06-2 2,4,6-Trichlorophenol, 98% w/w, Reagent Grade Crystal

#### 7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

 $2.5 mg/m^3$ 

 $27 mg/m^3$ 

 $160 \, mg/m^3$ 

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Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

· 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.

· Control parameters

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

#### CAS: 106-42-3 p-Xylene

PEL Long-term value: 435 mg/m<sup>3</sup>, 100 ppm

REL Short-term value: 655 mg/m<sup>3</sup>, 150 ppm

Long-term value: 435 mg/m<sup>3</sup>, 100 ppm

TLV Short-term value: 651 mg/m<sup>3</sup>, 150 ppm Long-term value: 434 mg/m<sup>3</sup>, 100 ppm BEI

#### · Ingredients with biological limit values:

CAS: 106-42-3 p-Xylene

BEI 1.5 g/g creatinine LD50 Intraperitoneal: urine Time: end of shift LD50: Methylhippuric acids

• 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. Avoid contact with the skin.

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.

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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* 

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

<ul> <li>Information on basic physical and chemical properties</li> <li>General Information</li> </ul>		
Form:	Liquid	
Color:	Clear	
Odor:	Distinct	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	13.3 °C (55.9 °F)	
Boiling point/Boiling range:	138 °C (280.4 °F)	
Flash point:	25 °C (77 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	525 °C (977 °F)	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.	
Explosion limits:		
Lower:	1.7 Vol %	
Upper:	7.6 Vol %	
Vapor pressure at 20 $^{\circ}C$ (68 $^{\circ}F$ ):	8.2 hPa (6.2 mm Hg)	
Density at 20 °C (68 °F):	0.85666 g/cm <sup>3</sup> (7.14883 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	

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Trade name: Chloride Standard 500 mg/kg in P-xylene

		(Contd. of page
· Solubility in / Miscibility with		
Water at 20 •C (68 •F):	0.2 g/l	
· Partition coefficient (n-octanol/w	ater): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	99.9 %	
VOC content:	99.92 %	
	856.0 g/l / 7.14 lb/gal	
Solids content:	0.0 %	
· 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)

Dermal LD50 1,101 mg/kg Inhalative LC50/4h 11 mg/l

#### CAS: 106-42-3 p-Xylene

DermalLD501,100 mg/kg (ATE)InhalativeLC50/4h11 mg/l (ATE)

Innatative LC30/4n 11 mg/t (A

· Primary irritant effect:

 $\cdot$  on the skin: Irritant to skin and mucous membranes.

• on the eye: No irritating effect.

• Sensitization: No sensitizing effects known.

 $\cdot$  Additional toxicological information:

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

Irritant

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· Carcinogenic categories					
· IARC (International Agency for Research on Cancer)					
CAS: 106-42-3 p-Xylene					
CAS: 88-06-2 2,4,6-Trichlorophenol, 98% w/w, Reagent Grade Crystal					
· NTP (National Toxicology Program)					
CAS: 88-06-2 2,4,6-Trichlorophenol, 98% w/w, Reagent Grade Crystal					
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.

••••• •		
· UN-Number		
· DOT, IMDG, IATA	UN1993	
$\cdot$ UN proper shipping name		
$\cdot DOT$	Flammable liquids, n.o.s. (Xylenes)	
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (XYLENES)	

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• Transport hazard class(es)	
DOT	
· Class	3 Flammable liquids 3
· Label	3
· IMDG, IATA	
3	
· Class	3 Flammable liquids
· Label	3
· Packing group · DOT, IMDG, IATA	III
Environmental hazards: Marine pollutant:	No
-	
<ul> <li>Special precautions for user</li> <li>Hazard identification number (Kemler code</li> </ul>	Warning: Flammable liquids
· Hazara taeniijication number (Kemter coae · EMS Number:	<i>F-E,S-E</i>
Stowage Category	A A
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
Quantity limitations	On passenger aircraft/rail: 60 L
	On cargo aircraft only: 220 L
· IMDG	51
Limited quantities (LQ)	5L Code: E1
Excepted quantities (EQ)	Coae: E1 Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per unter packaging: 50 ml Maximum net quantity per outer packaging: 1000 ml
· UN ''Model Regulation'':	UN 1993 FLAMMABLE LIQUID, N.O.S. (XYLENES), 3, III

## **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.

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· Section 313 (Specific toxic chemical listings):	(Contd. of page
All ingredients are listed.	
· TSCA (Toxic Substances Control Act):	
p-Xylene	ACTIV
2,4,6-Trichlorophenol, 98% w/w, Reagent Grade Crystal	ACTIV
· Hazardous Air Pollutants	
All ingredients are listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
CAS: 88-06-2 2,4,6-Trichlorophenol, 98% w/w, Reagent Grade Crystal	
· 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.	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
CAS: 106-42-3 p-Xylene	I

CAS: 106-42-3 p-Xylene	Ι		
CAS: 88-06-2 2,4,6-Trichlorophenol, 98% w/w, Reagent Grade Crystal	B2		
· TLV (Threshold Limit Value)			
CAS: 106-42-3 p-Xylene	A4		
· 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 Warning

Hazard-determining components of labeling: p-Xylene
Hazard statements
Flammable liquid and vapor.
Harmful in contact with skin or if inhaled.
Causes skin irritation.
Precautionary statements
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.

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Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. 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. Call a poison center/doctor if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. In case of fire: Use for extinction: CO2, powder or water spray. Store in a well-ventilated place. Keep cool. 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.
- · Contact:

· Date of preparation / last revision Revision 1.0,03-31-2021: updated raw material percentages. STN Revision 1.0 05-07-2021: updated hazard information. STN 05/27/2021 / -· 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 BEI: Biological Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2