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**PROCLEAN 200**

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**1 PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier:** PROCLEAN 200  
**Common Name:** Mixture  
**SDS Number:** 0128  
**Product Code:** CL0052  
**Revision Date:** 7/9/2015  
**Version:** 2  
**Internal ID:** 200C  
**Product Use:** Water Treatment  
**Supplier Details:** U.S. Water Services  
12270 43rd St. NE  
St. Michael, MN 55376

**Contact:** Non-emergency #: 866-663-7632  
**Email:** SDS@uswaterservices.com  
**Web:** www.uswaterservices.com

**EMERGENCY RESPONSE: (ChemTel)**  
US & Canada: 800-255-3924  
International: +01-813-248-0585

**2 HAZARDS IDENTIFICATION****Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):**

Health, Acute toxicity, 5 Dermal  
Health, Acute toxicity, 5 Oral  
Health, Skin corrosion/irritation, 1 A  
Health, Specific target organ toxicity - Single exposure, 3

**GHS Label elements, including precautionary statements**

**GHS Signal Word:** DANGER

**GHS Hazard Pictograms:****GHS Hazard Statements:**

H313 - May be harmful in contact with skin  
H303 - May be harmful if swallowed  
H314 - Causes severe skin burns and eye damage  
H335 - May cause respiratory irritation

**GHS Precautionary Statements:**

P281 - Use personal protective equipment as required.  
P302+352 - IF ON SKIN: Wash with soap and water.

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P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P304+341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P404 - Store in a closed container.

Hazards not otherwise classified (HNOC) or not covered by GHS

**3 COMPOSITION/INFORMATION ON INGREDIENTS****Ingredients:**

Cas#	%	Chemical Name
77-92-9	48-52	1,2,3-Propanetricarboxylic acid, 2-hydroxy-

**4 FIRST AID MEASURES**

**Inhalation:** Remove from contamination. If person has stopped breathing administer artificial respiration. Seek medical attention.

**Skin Contact:** Wash off with soap and plenty of water. Remove contaminated garments and wash or destroy. Seek medical attention if irritation develops. Consult a physician if irritation develops.

**Eye Contact:** Flush eyes with plenty of running water for 15 minutes. Seek medical attention.

**Ingestion:** If conscious, give plenty of water. If discomfort or other symptoms develop, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

**Most important symptoms & effects (acute & delayed):** No data available

**Indication of need for immediate medical attention:** No data available

**Special treatment needs:** No data available

**5 FIRE FIGHTING MEASURES**

<b>Flammability:</b>	Not flammable
<b>Flash Point:</b>	None
<b>Flash Point Method:</b>	Not applicable
<b>Burning Rate:</b>	No data available
<b>Autoignition Temp:</b>	No data available
<b>LEL:</b>	Not applicable
<b>UEL:</b>	Not applicable

**Extinguishing Media:**

**Suitable:** Use extinguishing media suitable for surrounding fire.

**Unsuitable:** No information available

**Hazardous combustion products:** Hazardous decomposition products formed under fire conditions- Carbon oxides, and other hazardous compounds

**Unusual Fire or Explosion Hazards:** None known

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**Special protective equipment/precautions:** Wear self-contained breathing apparatus

**6 ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective equipment, emergency procedures:** Avoid contact with the material. See section 8 of SDS for PPE recommendations

**Environmental Precautions:** Keep runoff from entering drains or waterways

**Spill/Leak procedures:** Contain spill or leak. Dike area if necessary to prevent spill from spreading or entering sewers and waterways. Recover as much as possible then absorb remainder with inert material. or neutralize with lime, soda ash, or magnesium hydroxide. Place into closed container for disposal.

**Regulatory Requirements:** Dispose of recovered material in accordance with all applicable state and federal regulations.

**7 HANDLING AND STORAGE**

**Handling Precautions:** Avoid contact with eyes, skin, or clothing. Do not taste or swallow. Do not inhale vapor or mist. Use with adequate ventilation. For industrial use only!

**Storage Requirements:** Store in closed containers away from temperature extremes and incompatible materials. Store in properly labeled containers in accordance with all local, state and federal guidelines.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** Provide local exhaust ventilation as needed to control misting.

**Personal Protective Equipment:** HMIS PP, C | Safety Glasses, Gloves, Apron

Respiratory protection: If needed use MSHA/NIOSH approved respirator. Seek professional advice prior to respirator selection and use. Follow all requirements of OSHA respirator regulations (29 CFR 1910.134)

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

General Hygiene: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, using the toilet, or applying cosmetics.

PPE recommendation is advisory only and based on typical use conditions. An industrial hygienist or safety officer familiar with the specific situation of anticipated use must determine actual PPE required when using this product (29 CFR 1910.132)

**Exposure Limits:**

OSHA (TWA)/PEL: Not Established

ACGIH (TWA/TLV): Not Established

**PROCLEAN 200****9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Colorless to pale yellow	<b>Odor:</b>	Nearly odorless
<b>Physical State:</b>	Liquid	<b>Solubility:</b>	Complete in water
<b>Odor Threshold:</b>	Not determinend	<b>Freezing/Melting Pt.:</b>	Not determinend
<b>Spec Grav./Density:</b>	10.34 lb/gal	<b>Flash Point:</b>	None
<b>Viscosity:</b>	Not determinend	<b>Vapor Density:</b>	Not determinend
<b>Boiling Point:</b>	Slightly higher than water	<b>Auto-Ignition Temp:</b>	Not determinend
<b>Partition Coefficient:</b>	Not determinend	<b>UFL/LFL:</b>	Not determinend
<b>Vapor Pressure:</b>	Not determinend		
<b>pH:</b>	<1		
<b>Evap. Rate:</b>	Not determinend		
<b>Decomp Temp:</b>	Not determinend		

**10 STABILITY AND REACTIVITY**

<b>Chemical Stability:</b>	Product is stable under normal storage and use conditions.
<b>Conditions to Avoid:</b>	Avoid temperature extremes and incompatible materials. Protect from freezing
<b>Materials to Avoid:</b>	Strong oxidizing agents, strong bases, metal nitrates.
<b>Hazardous Decomposition:</b>	Thermal decomposition may produce carbon oxides and other toxic compounds.
<b>Hazardous Polymerization:</b>	Will not occur.

**11 TOXICOLOGICAL INFORMATION**

<b>Acute Toxicity:</b>	Oral LD <sub>50</sub> (rat): >20 g/kg (estimate based on published data for citric acid)
<b>Skin Corrosion/Irritation:</b>	No data available
<b>Serious eye damage/irritation:</b>	No data available
<b>Respiratory or skin sensitization:</b>	No data available
<b>Specific target organ toxicity (single exposure):</b>	No data available
<b>Specific target organ toxicity (repeated exposure):</b>	No data available
<b>Aspiration hazard:</b>	No data available
<b>Carcinogenicity:</b>	No carcinogenic effects are known for the components of this product
<b>Germ Cell Mutagenicity:</b>	No mutagenic effects are known for the components of this product
<b>Teratogenicity:</b>	No teratogenic effects are known for the components of this product

**PROCLEAN 200****12 ECOLOGICAL INFORMATION****Aquatic Toxicity**

24 Hr LC <sub>50</sub>	<i>Daphnia Magna</i> Water Flea:	1535 mg/L
48 Hr LC <sub>50</sub>	Golden orfe minnow:	760 mg/L
96 Hr LC <sub>50</sub>	<i>Daphnia Magna</i> Water Flea:	>1000 mg/L
	Fathead Minnow:	>1000 mg/L
	Goldfish:	440 mg/L

**Elimination** (persistence & degradability): Readily biodegradable - 98% after 2 days

Chemical Oxygen Demand (COD): 728 mg O<sub>2</sub>/g

Biological Oxygen Demand (BOD): 528 mg O<sub>2</sub>/g

**Bioaccumulative potential:** This product is not expected to bioaccumulate

**Mobility in soil:** No studies have been conducted for this product

**Other adverse effects:** No data available

**13 DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local regulations.

This material should be fully characterized for toxicity and possible reactivity prior to disposal (40 CFR 261). Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. Along with properly characterizing all waste materials, consult state and local regulations regarding the proper disposal of this material.

Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

**14 TRANSPORT INFORMATION**

UN3265, Corrosive liquid, acidic, organic, n.o.s., 8, PGIII, (Citric Acid)

DOT Transportation data (49 CFR 172.101)

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## PROCLEAN 200

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### 15 REGULATORY INFORMATION

#### Component (CAS#) [%] - CODES

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 1,2,3-Propanetricarboxylic acid, 2-hydroxy- (77-92-9) [48-52] TSCA

#### Regulatory CODE Descriptions

##### ----- TSCA = Toxic Substances Control Act

TSCA: All components of this product are listed (or are not required to be listed) in the TSCA inventory

##### EPA / CERCLA / SARA TITLE III:

**CERCLA List:** This product does not contain any CERCLA listed hazardous substances.

**Toxic Chemical List (SARA 313):** This product does not contain any chemicals subject to routine annual toxic chemical release reporting.

**Extremely Hazardous Substance (SARA 302/304):** This product does not contain any extremely hazardous substances subject to emergency planning requirements.

**SARA 312:** Acute

**RCRA:** Corrosive, D002

### 16 OTHER INFORMATION

HMIS III: Health = 2, Fire = 0, Physical Hazard = 0

HMIS PPE: C - Safety Glasses, Gloves, Apron

HMIS	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	C

**Author:** U.S. Water Services

**Revision Notes:** Updated to GHS format

#### **Disclaimer:**

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