

Revision Date: 5-October-2012
Replaces: 10-March-2010

Section 1 - Chemical Product and Company Identification

Emergency Response No. (800) 255-3924 (ChemTel)

Product/Chemical Name: PROCLEAN 200
Product Description/Use: Acid cleaner for industrial, food, and dairy equipment.
Company: U.S. Water Services
330 South Cleveland St
Cambridge, MN 55008

Section 2 - Composition/Information on Ingredients

<u>Ingredient Name</u>	<u>CAS Number</u>	<u>Wt %</u>	<u>NIOSH REL</u>	<u>OSHA PEL</u>	<u>ACGIH TWA</u>
Citric Acid, Food Grade	77-92-9	48-52	NE	NE	NE

*NE = "Not Established"

Section 3 - Hazards Identification

Potential Health Effects

Primary Entry Routes: Eye and Skin Contact, Ingestion

Acute Effects: Irritating to eyes and skin

Eye: Causes irritation and burning sensation to eyes. May result in mild burns if not removed promptly

Skin: May cause irritation to skin, especially with prolonged or repeated contact.

Inhalation: Risk of inhalation exposure is relatively low. Inhalation of mist may cause irritation of nose, throat and upper respiratory tract.

Ingestion: Can cause gastrointestinal pain or discomfort along with other possible harmful effects.

Carcinogenicity: No component of this product is listed as a known or suspected carcinogen by NTP, IARC, or OSHA.

Medical Conditions Aggravated by Long-term Exposure: None known

Chronic Effects: None known

HMIS

Health	2	Moderate Hazard
Flammability	0	Minimal Hazard
Physical Hazard	0	Minimal Hazard
PPE	C	Goggles, gloves, apron

Section 4 - First Aid Measures

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

Skin Contact: Wash affected area thoroughly with soap and water. Remove contaminated garments and wash or destroy. Seek medical attention immediately.

Inhalation: Remove from contamination. If symptoms are not immediately relieved, seek medical attention. If person has stopped breathing administer artificial respiration and seek immediate medical attention.

Ingestion: If conscious, give plenty of milk or water. Do not induce vomiting unless directed to do so by a physician. Seek medical attention immediately.

Section 5 - Fire-Fighting Measures

Flash Point: None

Flash Point Method: Not applicable

Burning Rate: Not applicable

Auto-ignition Temperature: Not determined

LEL: Not applicable

UEL: Not applicable

Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unusual Fire or Explosion Hazards: None known.

Hazardous Combustion Products: Thermal decomposition, as under fire conditions, may produce carbon dioxide, carbon monoxide, and potentially hazardous organic compounds

Fire-Fighting Instructions: No special instructions.

Fire-Fighting Equipment: For fires involving this material, do not enter any enclosed or confined fire spaces without proper protective equipment, such as self-contained breathing apparatus.

Section 6 - Accidental Release Measures

Spill/Leak Procedures: Wear appropriate protective gear. 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.

Cleanup: After collection/absorption of spill, neutralize spill area with lime, soda ash or magnesium hydroxide, then flush with large quantity of water.

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

Section 7 - Handling and Storage

Handling Precautions: Do not get in eyes, on skin or on clothing. Do not taste or swallow. Do not inhale mists. Use with adequate ventilation. For Industrial Use Only!

Storage Requirements: Keep away from children. Store in closed container away from temperature extremes and incompatible materials. Protect from freezing.

Regulatory Requirements: Store in properly labeled container in accordance with all local, state and federal guidelines.

Section 8 - Exposure Controls/Personal Protection

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

Administrative Controls: No recommendations.

Respiratory Protection: Not required under normal use conditions. If needed, use MSHA/NIOSH approved respirator for dusts and mists. Seek professional advice prior to respirator selection and use. Follow all requirements of OSHA respirator regulations (29 CFR 1910.134).

Eye Protection: Wear chemical safety goggles, per OSHA eye-and face-protection regulations (29 CFR 1910.133). Contact lenses should not be worn when handling any chemical product as they may trap chemicals that get in the eye, thus increasing the risk of eye damage.

Skin Protection: Wear chemically protective gloves and apron to prevent skin contact. Chemically resistant gauntlets and boots may also be worn for added protection.

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

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and personal protective equipment.

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

Product: **PROCLEAN 200**

Section – 9 Physical and Chemical Properties

Physical State: Liquid

Appearance: Colorless to pale yellow

Odor: Nearly odorless

Boiling Point: Slightly higher than water

Freezing/Melting Point: Not determined

Specific Gravity (H₂O=1 at 4°C): 1.1

PH: < 1

Water Solubility: Complete

Vapor Pressure: Not determined

Vapor Density (Air=1): Not determined

% Volatile: 50 %

Volatile Organic Content: 0% (w/w)

Evaporation Rate: Not determined

Section 10 - Stability and Reactivity

Stability: Product stable under normal storage and use conditions.

Polymerization: Hazardous polymerization will not occur.

Chemical Incompatibilities: Strong oxidizing agents, strong bases, metal nitrates

Conditions to Avoid: Temperature extremes, contact with incompatible materials

Hazardous Decomposition Products: None under normal storage and use conditions. See Section 5.

Section 11 - Toxicological Information

Toxicity:

Oral, LD₅₀ (rat) > 20 g/kg (estimate based on published data for citric acid)

Carcinogenicity: No carcinogenic effects are known for the components of this product.

Mutagenicity: No mutagenic effects are known for the components of this product.

Teratogenicity: No teratogenic effects are known for the components of this product.

Section 12 - Ecological Information

Aquatic Toxicity: LC₅₀ (Fathead minnow) 200 mg/L

Bioaccumulation: Not determined

Environmental Degradation: Product is considered to be biodegradable

Soil Absorption/Mobility: No studies have been conducted for this product.

Section 13 - Disposal Considerations

Disposal: Review federal, state and local government requirements prior to disposal.

Disposal Regulatory Requirements: Discarded product, as sold, would not be considered a RCRA Hazardous Waste.

Container Cleaning and Disposal: Review federal, state and local government requirements prior to disposal.

Product: **PROCLEAN 200**

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Corrosive Liquid, Acidic, Organic, N.O.S. (Contains: Citric Acid)
Hazard Class: 8
ID No.: UN 3265
Packing Group: III
Label Code: Corrosive
HMIS Label Code: 200C

Section 15 - Regulatory Information

EPA Regulations:

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

RCRA Hazardous Waste Classification (40 CFR 261.): Not Applicable

RCRA Hazardous Waste Number (40 CFR 261.20-24): Not Applicable

SARA TITLE III –CERCLA LIST: This product does not contain any CERCLA Listed hazardous substances.

SARA TITLE III-TOXIC CHEMICAL LIST (Sec. 313): This product does not contain any chemicals subject to routine annual toxic chemical release reporting.

SARA TITLE III-EXTREMELY HAZARDOUS SUBSTANCE (Sec. 302/304): This product does not contain any extremely hazardous substances subject to the emergency planning requirements.

Section 16 - Other Information

Prepared By: D. Weber, U.S. Water Services

Revision Notes: Reformat/rewrite. All sections affected.

Disclaimer:

USER'S RESPONSIBILITY

The information and recommendations contained herein cannot cover all possible situations which the user may experience during storage, handling and use of the product. Each aspect of your operation should be examined to determine if additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

DISCLAIMER OF LIABILITY

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