Safety Data Sheet

FERROCLEAN

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: FERROCLEAN
Common Name: MIXTURE
SDS Number: 0452
Revision Date: 4/3/2015
Version: 2
Internal ID: 211C
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, Serious Eye Damage/Eye Irritation, 2 B
Health, Acute toxicity, 5 Oral
Health, Acute toxicity, 5 Inhalation
Health, Skin corrosion/irritation, 3

GHS Label elements, including precautionary statements

GHS Signal Word: **WARNING**

GHS Hazard Pictograms:

NO GHS PICTOGRAMS INDICATED FOR THIS PRODUCT

GHS Hazard Statements:

H320 - Causes eye irritation
H303 - May be harmful if swallowed
H333 - May be harmful if inhaled
H316 - Causes mild skin irritation

GHS Precautionary Statements:

P281 - Use personal protective equipment as required.
P302+352 - IF ON SKIN: Wash with soap and water.
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.
P315 - Get immediate medical advice/attention.
P304+341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

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)

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
7631-90-5	1-5%	Sodium bisulfite
1310-73-2	1-5%	Sodium hydroxide
2809-21-4	5-10	Phosphonic acid, (1-hydroxyethylidene)bis-
10101-89-0	5-10	Trisodium Phosphate Dodecahydrate

4 FIRST AID MEASURES

Inhalation: Remove from contamination. If symptoms persist, seek medical attention.
Skin Contact: Wash off with soap and plenty of water. Consult a physician if irritation develops.
Eye Contact: Flush eyes with plenty of running water at least 15 minutes. Seek immediate medical attention.
Ingestion: Drink several glasses of water. 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

Flammability: Nonflammable
Flash Point: Nonflammable
Flash Point Method: Pensky Martens Closed cup
Burning Rate: No data available
Autoignition Temp: No data available
LEL: Not applicable
UEL: 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 potentially hazardous compounds

Unusual Fire or Explosion Hazards: None known

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: Spill may be slippery. 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. 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:	Sodium Hydroxide	Sodium Bisulfite
NIOSH (REL/TWA):	2 mg/m^3 (C)	5 mg/m^3
OSHA(PEL):	Not Established	Not Established

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear colorless		
Physical State:	Liquid	**Odor:**	Mild
Odor Threshold:	No data available	**Solubility:**	Complete
Spec Grav./Density:	9.2	**Freezing/Melting Pt.:**	27°F
Viscosity:	No data available	**Flash Point:**	No data available
Boiling Point:	212°F	**Vapor Density:**	Same as water
Partition Coefficient:	No data available	**Auto-Ignition Temp:**	No data available
Vapor Pressure:	Same as water	**UFL/LFL:**	No data available
pH:	6.5		
Evap. Rate:	Not Determined		
Decomp Temp:	No data available		

10 STABILITY AND REACTIVITY

Stability:	Product is stable under normal storage and use conditions.
Conditions to Avoid:	Avoid temperature extremes. Protect from freezing. Keep container closed when not in use.
Materials to Avoid:	Oxidizers and strong acids
Hazardous Decomposition:	Thermal decomposition may produce carbon oxides and other toxic compounds.
Hazardous Polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available
Skin Corrosion/Irritation: No data availble
Serious eye damage/irritation: No data available
Respiratory or skin sensitization: No data available
Germ cell mutagenicity: No data available
Carcinogenicity: No components listed as a carcinogen
Reproductive Toxicity: No data available
Specific target organ toxicity (single exposure): No data available
Specific target organ toxicity (repeated exposure): No data available
Aspiration hazard: No data available

12 ECOLOGICAL INFORMATION

Aquatic Toxicity No data available
Elimination (persistency & degradability): No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available
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

UN1760, Corrosive liquids, n.o.s., 8, PGIII, (Sodium Hydroxide, Sodium Bisulfite)

DOT Transportation data (49 CFR 172.101)

See section 15 of SDS for information on Reportable Quantity chemicals (RQ)

15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Sodium bisulfite (7631-90-5) [1-5%] CERCLA, CSWHS, MASS, OSHAWAC, PA, TSCA, TXAIR RQ(1000LBS), Sodium hydroxide (1310-73-2) [1-5%] CERCLA, CSWHS, MASS, OSHAWAC, PA, TSCA, TXAIR
Phosphonic acid, (1-hydroxyethylidene)bis- (2809-21-4) [5-10] TSCA
Trisodium Phosphate Dodecahydrate (10101-89-0) [5-10] CERCLA

Regulatory CODE Descriptions

RQ = Reportable Quantity
CERCLA = Superfund clean up substance
CSWHS = Clean Water Act Hazardous substances
MASS = MA Massachusetts Hazardous Substances List
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
TSCA = Toxic Substances Control Act
TXAIR = TX Air Contaminants with Health Effects Screening Level

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

EPA / CERCLA / SARA TITLE III:
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: No data available

16 OTHER INFORMATION

HMIS III: Health = 2, Fire = 1, Physical Hazard = 1
HMIS PPE: C - Safety Glasses, Gloves, Apron

HMIS	
HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	1
PERSONAL PROTECTION	C

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Revision Notes: Updated to GHS format

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