



Water Guard Inc. (WGI)

SAFETY DATA SHEET

Revision Date: May 28, 2015

SECTION 1 - COMPANY AND PRODUCT IDENTIFICATION

PRODUCT

Product Name: FERRIC CHLORIDE SOLUTION 40%

Product Description: Iron III Salt

COMPANY IDENTIFICATION

Supplier: Water Guard Inc.

P.O. Box 2226

Wilson, N.C. 27894

Customer Service: 1-800-872-7665

Emergency Contacts Afterhours: (PERS) 1-800-633-8253

SECTION 2- HAZARDS IDENTIFICATION

GHS Classification:

[Health]

Acute toxicity, Oral Category 4

Skin irritation Category 2

Serious eye damage Category 1

[Environmental]

Acute aquatic toxicity Category 2

Chronic aquatic toxicity Category 2

[Physical]

Corrosive to metals Category 1

GHS Label elements, including precautionary statements

Pictograms



Signal Word: Danger

Hazard statement(s)

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P234 Keep only in original container.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.



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SECTION 3 · COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS Number	%WT
Ferric Chloride	7705-08-0	37-42%
Water	7732-18-5	Balance

SECTION 4 · FIRST AID MEASURES

FIRST AID PROCEDURES:

Eye Contact: Flush with water for at least 15 minutes. Seek medical attention if symptoms develop and persist.

Skin Contact: Wash with soap and water. Seek medical attention if irritation develops.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Seek medical attention if symptoms appear.

Ingestion: Rinse mouth with water. Seek medical attention if symptoms appear.

SECTION 5 · FIRE FIGHTING MEASURES

Extinguishing Media: Use any agent suitable for surrounding fire conditions and equipment.

Fire Fighting Procedures: Wear self-contained breathing apparatus (SCBA) operated in pressure demand mode and structural firefighter's protective clothing.

Fire and Explosion Hazards: None known or expected. Product does not burn.

SECTION 6 · ACCIDENTAL RELEASE and DISPOSAL MEASURES

Small Spill: Stop source of spill. Salvage and recycle as much material as possible. Use appropriate tools to pick up dry material and collect into suitable container.

Large Spill: Prevent further leakage. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Avoid contaminating ground and surface water.

SECTION 7 · STORAGE AND HANDLING

Precautions To Be Taken In Handling and Storage: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Always store in tightly sealed and properly labeled original container. Store in a cool, dry well ventilated area.

Other Precautions: This material is hygroscopic.

SECTION 8 · EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls: Provide adequate ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below. The level of protection and types of controls will vary depending upon potential exposure conditions

Exposure Limits: Ferric Chloride 1 mg/m³ ACGIH 1 mg/m³ OSHA

Personal Protective Equipment (PPE):

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Skin: If prolonged or repeated skin contact is likely, wear appropriate protective gloves.

Clothing: Selection of protective clothing depends on work conditions, potential exposure conditions and may include gloves, boots, suits and other protective items.

Respirators: Where adequate ventilation is not available an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR



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1920.134. In confined areas, use a self-contained breathing apparatus.

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

Flash Point: No available data	Flammability Limits: No available data
Autoignition Temperature: No available data	Specific Gravity/Density: 2.80
Boiling Point Range: No available data	Volatile %: Nil
Melting Point/Freezing Point: 579 °F	Evaporation Rate (Water=1): No available data
Vapor Pressure: < 1 mmHg	pH: No available data
Vapor Density (Air-1): 5.6	Solubility in Water: 167 g/l
Odor/Appearance: White solid with no odor.	

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable under normal use conditions.
Conditions to Avoid: When mixed with limited amount of water enough heat may be generated to cause frothing.
Incompatibility: Strong oxidizing agents, Potassium, Alkali metals, Bases, Exothermic in contact with water, Forms shock-sensitive mixtures with certain other materials.
Hazardous Decomposition Products: May release Ferric oxide
Hazardous Polymerization: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Signs and Symptoms of Overexposure:

Skin: Contact can be very irritating. Prolonged contact can result in inflammation.
Eyes: Dust in eyes can be very irritating. Prolonged contact can result in tissue damage from abrasion.
Inhalation: High dust concentrations can be very irritating and potentially harmful.
Ingestion: Not a normal route of entry. However, can be harmful or fatal if swallowed.
Acute oral toxicity:
LD50 rat: 1,300 mg/kg
Acute inhalation toxicity:
LD50 rat: No available data
Acute dermal toxicity:
LD50 rabbit: > 2,000 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

Aquatic Toxicity: Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 21.84 mg/l - 96 h
Bio-accumulative potential: This product is not readily biodegradable.
Mobility: No available information or data.

SECTION 13 - DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

SECTION 14 - TRANSPORTATION

U.S. DEPARTMENT OF TRANSPORTATION (Road or Rail):

Proper Shipping Name:	Ferric Chloride Solution
Hazard Class	8
UN Number:	2582
Packaging Group:	III



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SECTION 15 · REGULATORY INFORMATION

US FEDERAL REGULATIONS

Comprehensive Environmental Response and Liability Act (CERCLA)

This material is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. The reportable quantity (RQ) for this material is 1000 pounds. If appropriate, immediately report to the National Response Center (800/424-8802) as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies.

Toxic Substance Control Act (TSCA): All components of this product are listed on the TSCA inventory list.

SARA Section 311/312 (40 CFR 370) Hazard Categories:

Acute Health Hazard

SARA Section 313 (40 CFR 372) Hazard Categories: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA.

Clean Air Act: None of the chemicals in this product are listed as Hazardous Substances under the CAA.

California Prop 65: This product contains no chemicals known by the State of California to cause cancer, birth defects or other reproductive harm.

SECTION 16 · OTHER INFORMATION

MSDS Revision Date: November 2014

National Fire Protection Association (NFPA) Ratings: This information is intended solely for the use of individuals trained in the NFPA system.

Health: 2

Flammability: 0

Reactivity: 0

The information above is believed to be accurate and represents the best information currently available to us. However, Water Guard Inc makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall WGI be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if WGI has been advised of the possibility of such damages. The vendor assumes no responsibility for injury or damages resulting from the inappropriate alteration or manipulation of this SDS and its contents from that originally submitted by WGI.