Safety Data Sheet

Section 1 Identification

Product Identifier:	**Brimsorb-WX**
Product Use:	**Industrial**
Company Identification:	**SJ Environmental Corp.**
Address:	**1155 Dairy Ashford Rd., Suite 825 Houston, Texas 77097**
Phone Number:	**713-893-6111**

For chemical emergencies, call CHEMTREC day or night. 1-800-424-9300 (North America)

Section 2 Hazard(s) Identification

Classification:

Corrosive to Metals	**Category 1**
Acute Toxicity (Oral)	**Category 4**
Skin Corrosion	**Category 1A**
Serious Eye Damage	**Category 1**
Carcinogenicity	**Category 1A**
Acute Aquatic Toxicity	**Category 1**
Chronic Aquatic Toxicity	**Category 1**

Signal Word: Danger!
Hazard Statements: Causes severe skin burns and eye damage. Harmful if swallowed. Very toxic to aquatic life with long lasting effects. May be corrosive to metals. May cause cancer (inhalation).

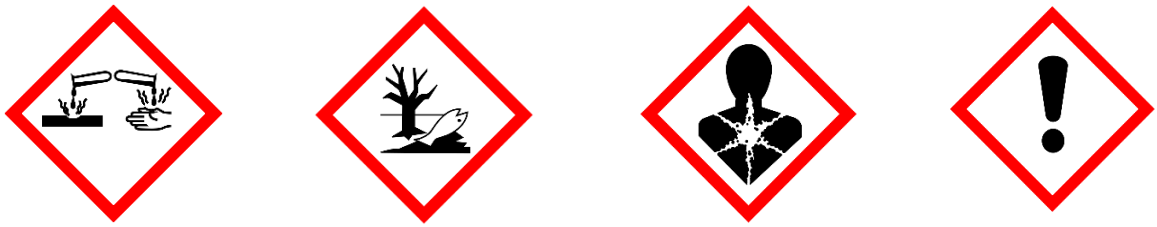
Precautionary Statements: Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Clean contaminated clothing/equipment prior to reuse. If ingested: Rinse your mouth thoroughly. Do not induce vomiting unless under direct medical supervision. Seek immediate medical attention/advice. If on skin: Immediately take off all contaminated clothing/equipment. Rinse skin thoroughly with water for at least 15 minutes. If irritation worsens/persists, seek medical attention/advice. If in eyes: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Seek immediate medical attention/advice. If inhaled: Remove individual to fresh air and

keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Seek immediate medical attention/advice.

Keep only in original packaging or appropriately labeled end-use container. Store in a corrosive resistant container with a resistant inner liner. Store locked up. Collect spillage. Avoid release into the environment. Dispose of contents/container in accordance with local, regional, and federal regulations.

Other Hazards: May produce explosive hydrogen gas on contact with incompatibilities or upon thermal decomposition.

Label Pictograms:



Section 3 Composition/Ingredient Information

Contains Hazardous or Regulated Components

Chemical Name	Percentage	CAS Number
Sodium Hypochlorite 12.5%	70 – 95%	7681-52-9
1-hydroxyethane-1, 1-diphosphonic acid	0 – 5%	2809-21-4
Ferric Sulfate	0 – 5%	10028-22-5
Sulfuric Acid	0 – 1%	7664-93-9
Proprietary Ingredient*	0 – 1%	*

**Some items on this SDS may be designated as proprietary and/or trade secrets (TS). The exact % concentration of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA HCS 1910.1200.*

Section 4 First-Aid Measure

General: Avoid direct contact or inhalation. If irritation persists, seek medical attention/advice.
Eyes: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Seek immediate medical attention/advice.

Skin: Immediately take off all contaminated clothing/equipment. Rinse skin thoroughly with water for at least 15 minutes. If irritation worsens/persists, seek medical attention/advice.
Ingestion: Rinse mouth thoroughly. Do not induce vomiting unless under direct medical supervision. Seek immediate medical attention/advice.
Inhalation: Remove individual to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Seek immediate medical attention/advice.

Notes to Physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than the product may have occurred.

Section 5 Firefighting Measure

Flash Point: This product is not tested. Main constituent (sodium hypochlorite) is not flammable under normal conditions.
Autoignition Temperature: This product is not tested. Main constituent (sodium hypochlorite) does not auto ignite under normal conditions.
Hazardous Combustion Products: During thermal decomposition, product may emit oxides of sodium, phosphorus, sulfur, and carbon, as well as hydrogen chlorides and corrosive vapors.
Unusual Fire & Explosion Hazards: Contact with metals may release flammable hydrogen gas. May react exothermically with water releasing heat.
Extinguishing Media: Do not use dry chemical extinguishing agents containing ammonia compounds – explosive compounds can be formed. Do not use carbon dioxide, dry chemical powder, or other extinguishing agents that smother flames: due to oxidizing properties, use of carbon dioxide and dry chemical agents is discourage as they may be ineffective or promote hazardous reactions. Do not use water jets as this may spread fire. Use water spray, dry inert material, or non-PFAs foam.
Special Firefighting Procedures: Positive pressure self-contained breathing apparatus and protective clothing. Keep upwind or uphill if possible. Contain water runoff. **Do not release into environment. Do not allow to enter waterways/sewers.**

See Section 9 for physical and chemical properties of product.

Section 6 Accidental Release Measure

General: Evacuate area of unnecessary and untrained personnel. If possible, keep personnel upwind of spill. Ventilate area. Wear protective clothing and equipment. Do not release into environment, waterways, and sewers
Containment of Spill: Product should be prevented from contaminating the environment and/or entering sewers and waterways. Wear protective clothing,

protective gloves, face and eye protection, and breathing apparatus (if applicable). If possible, to do so without risk: stop flow of material and dike. Use non-combustible material, such as sand or diatomaceous earth, to soak.
Cleanup and Disposal of Spill: Absorb spill with inert, noncombustible material such as diatomaceous earth or sand, and place in a suitable marked container for disposal. Retain flush water: do not release into the environment, waterways, and sewers. All collected material and flush water should be disposed of at a licensed waste facility per local, state, and federal regulations.
Environmental and Regulatory Reporting: Do not allow spill or water runoff to enter environment or sewers/waterways. If product enters environment/waterways, inform local, state, and federal regulatory bodies as necessary. (See *Section 12* for ecological impact information).

United State National Response Center 1-800-424-8802

See Section 8 for exposure controls and personal protection. See Section 13 for disposal consideration.

Section 7 Handling and Storage

General: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Handling: Handle in accordance with good industrial hygiene and safety practices. Wear personal protective equipment. Avoid contact with skin, eyes, clothing/equipment, inhalation, or ingestion. Wash thoroughly after handling. Wash contaminated clothing/equipment prior to reuse. Provide sufficient air exchange and/or exhaust in work rooms to avoid formation of vapors.

Storage: Store only in cool, dry places away from direct sunlight. Do not allow product to freeze. Keep container locked up. Store in original container or properly label end-use corrosive resistant container with resistant inner lining. Keep container tightly closed when not in use. Keep container in area equipped with fire extinguishing media (see ***Section 5***). Store away from incompatible materials (see ***Section 10***). Observe all label precautions.

Section 8 Exposure Controls/Personal Protection

Engineering Controls: The following traditional exposure techniques may be used to effectively minimize employee exposure.

Eye Protection: Wear full face shield, safety goggles with side-shields, or full-face respirator. An emergency eye wash must be readily accessible to the

work area. Ensure a safety shower is available near all areas of bulk storage, delivery, and use.
Skin Protection: Skin contact should be minimized through use of chemical resistant clothing and gloves. Protective clothing should be durable and permeation resistant. Refer to PPE manufacturer specifications for permeation data. Breakthrough time must be used to determine replacement frequency. Use of impervious apron is recommended.
Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), a NIOSH approved air-purifying respirator should be used. In situations where air-purifying respirators may not provide adequate protection, a positive-pressure, air-supplying respirator is recommended.

Engineering Measure: Showers, Eyewash Station, Ventilation

Permissible Exposure Limits (PEL):

Sodium Hypochlorite

Exposure Limit	2 mg/m3
Basis	WEEL*
Entity	AIHA

- Note: No OSHA/ACGIH Limits established

Ferric Sulfate

Exposure Limit	1 mg/m3
Basis	TWA*
Entity	OSHA
Exposure Limit	1 mg/m3
Basis	TWA*
Entity	ACGIH
Exposure Limit	1 mg/m3
Basis	TWA*
Entity	NIOSH

Sulfuric Acid**

Exposure Limit	1 mg/m3
Basis	TWA*
Entity	OSHA
Exposure Limit	0.2 mg/m3
Basis	TWA*
Entity	ACGIH
Exposure Limit	1 mg/m3
Basis	TWA*
Entity	NIOSH

TWA – Time Weighted Average over 8 hours of work
WEEL – Workplace Environmental Exposure Limits
****ACGIH limit based on potential for carcinogenicity via inhalation***

Work Practice Controls: Personal hygiene is an important exposure control measure. The following general measures should be taken when working with or handling this material.

Hygiene: Wash hands and face thoroughly before eating, drinking, using tobacco products, applying cosmetics, or using the toilet. Do not store or consume foods, beverages, or tobacco products in areas where this material is stored.
Exposure Contact: Wash exposed skin promptly to remove accidental splashes or contact with this material.

Section 9 Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Physical State:	Viscous Liquid
Appearance:	Light to Dark Amber
Odor:	Characteristic

Fire-Related Properties

Flammability:	This product is not tested. Main constituent (sodium hypochlorite) is not flammable under normal conditions.
Flash Point:	This product is not tested. Main constituent (sodium hypochlorite) is not flammable under normal conditions.
Autoignition Temperature:	This product is not tested. Main constituent (sodium hypochlorite) does not auto-ignite under normal conditions.

Other Properties

Freezing Point:	Not Determined
Boiling Point:	Not Determined
Evaporation Rate:	Not Determined
Specific Gravity:	1.15 – 1.25
pH:	9.0 – 11.0
Viscosity:	Not Determined
Crystallization Temperature:	Not Determined
Solubility:	Soluble
VOC Content:	Not Determined
Oxidizing Properties:	Oxidizer

***Physical properties determined through internal testing of final product formulation. All other values are estimated or not determined due to testing capability constraints or lack of available data.**

Section 10 Stability and Reactivity

Stability: Product is stable under recommended handling and storage conditions.
Conditions to Avoid: Keep in cool, dry, well-ventilated areas away from direct sunlight. Store away from incompatible materials. Do not expose to moisture. Do not allow to freeze.
Hazardous Polymerization: Hazardous polymerization is not expected to occur under recommended storage and handling conditions.
Incompatibility with Other Materials: Strong acids and bases. Other oxidizers such as hydrogen peroxide. Metals. May form shock-sensitive mixtures with certain other materials. Reacts violently with ammonium salts, aziridine, methanol, and phenylacetonitrile, which may result in explosions. May react with primary aliphatic or aromatic amines to form explosively unstable n-chloroamines. Reaction with formic acid may become explosive at 55°C.
Hazardous Decomposition: Hydrogen chloride gas. Carbon, sodium, sulfur, and phosphorus oxides. Corrosive vapors.

Section 11 Toxicological Information

Information on Potential Routes of Exposure:

Eyes: Avoid contact with eyes. Contact may cause severe eye irritation, conjunctivitis, burns, and corneal necrosis.
Skin: Avoid contact with skin. Contact may cause irritation, redness, and burns.
Inhalation: Avoid inhalation. May cause drowsiness, dizziness, irritation, pain, coughing, sneezing, choking, and inflammation of upper respiratory tract and mucous membranes.
Ingestion: Avoid ingestion. May cause upset stomach, vomiting, and other gastrointestinal symptoms.

Toxicology:

Sodium Hypochlorite (CAS 7681-52-9)

Oral		
LD 50	Rat	1,100 mg/kg
Dermal		
LD 50	Rabbit	> 20,000 mg/kg

Etidronic Acid (CAS 2809-21-4)

Oral		
LD 50	Rat	2,000 mg/kg
Dermal		
LD 50	Rabbit	8,000 mg/kg

Ferric Sulfate (CAS 10028-22-5)

Oral		
LD 50	Rat	> 500 mg/kg

Sulfuric Acid (CAS 7664-93-9)

Oral		
LD 50	Rat	2,140 mg/kg
Inhalation		
LC 50	Rat	0.375 mg/L (4 hrs)

Target Organ Effects: This product is not tested. No data available on constituent materials.
Mutagenicity/Carcinogenicity: This product is not tested. Mist of constituent material (sulfuric acid) is listed by IARC as a possible human carcinogen.
Reproduction: This product is not tested. No data available on constituent materials.
Chronic Toxicity: This product is not tested. No data available on constituent materials.

Section 12 Ecological Information

General: Product has not been tested but is expected to be toxic to aquatic life with long-lasting effects based on available of constituent materials. Do not allow product to enter environment or sewers/waterways. Spills of product may be subject to reporting to local, state, and federal regulatory bodies as necessary.
Ecotoxicity:

Sodium Hypochlorite (CAS 7681-52-9)

LC 50	Fish	0.08 mg/L (96 hrs)
EC 50	Water Flea	0.04 mg/L (48 hrs)
EC 50	Algae	0.02 mg/L (72 hrs)

Etidronic Acid (CAS 2809-21-4)

LC 50	Fish	195 mg/L (96 hrs)
EC 50	Water Flea	527 mg/L (48 hrs)

Sulfuric Acid (CAS 7664-93-9)

LC 50	Fish	> 500 mg/L (96 hrs)
EC 50	Water Flea	29 mg/L (24 hrs)

Persistence/Degradability: This product is not tested. Product is expected to cause long-term adverse effects on environments based on available data of constituent materials.
Bioaccumulative Potential: No Data Available

Section 13 Disposal Consideration

Waste Disposal Recommendations: Product should not be disposed of directly into the environment. Dispose of contents/container in accordance with local, regional, national, and international regulations.

Container Disposal Method: Emptied container may contain product residue and should not be reused. Empty containers may pose fire and explosion hazard. Dispose of contents/container in accordance with local, regional, national, and international regulations.

Section 14 Transport Information

The shipping description(s) herein were prepared in accordance with regulations at the time this SDS was authored and can vary based on date of issuance.

Department of Transportation (DOT): UN 1791, HYPOCHLORITE SOLUTION, 8, PG III
International Maritime Dangerous Goods (IMDG): UN 1791, HYPOCHLORITE SOLUTION, 8, PG III
International Air Transportation Association (IATA): UN 1791, HYPOCHLORITE SOLUTION, 8, PG III

Section 15 Regulatory Information

Federal Regulatory Status:

Reportable Quantities under CERCLA and EPCRA, 40 CFR 302 and 355:

Sodium Hypochlorite (CAS 7681-52-9)	**100 Lbs**
Ferric Sulfate (CAS 10028-22-5)	**1000 Lbs**
Sulfuric Acid (CAS 7664-93-9)	**1000 Lbs**

Clean Water Act Reporting 40 CFR 117 Section 311:

Ferric Sulfate (CAS 10028-22-5)
Sulfuric Acid (CAS 7664-93-9)

Clean Air Act Reporting: The product does not contain component(s) regulated under this section.

Toxic Substance Control Act, 40 CFR 710:

Sodium Hypochlorite (CAS 7681-52-9)
Etidronic Acid (CAS 2809-21-4)
Ferric Sulfate (CAS 10028-22-5)
Sulfuric Acid (CAS 7664-93-9)

Drug Enforcement Agency (DEA): The product does not contain component(s) regulated under this section.

SARA 313:	**Sulfuric Acid (CAS 7664-93-9)**
SARA 311/312:	
Acute Health Hazard	**Yes**
Chronic Health Hazard	**Yes**
Fire Hazard	**No**
Sudden Release of Pressure Hazard	**No**
Reactive Hazard	**Yes**

State Regulations:

California (Prop 65): This product does not contain component(s) regulated under this section.

International Regulations:

Individual Components of this product may be listed on the following inventories:

Australian Inventory of Chemical Substances (AICS)
Canada Domestic Substances List (DSL)
Canadian Ingredient Disclosure List (IDL)
Canadian Workplace Hazard Materials Information System (WHMIS)
Inventory of Existing Chemical Substances Produced or Imported in China (IECSC)
European Inventory of Existing Chemical Substances (EINECS)
European No Longer Polymers Inventory (NLP)
Japanese Existing National Inventory of Chemical Substances (ENCS)
Japanese Industrial Safety and Health Law (ISHL)
Japanese Pollutant Release and Transfer Register Law (PRTR)
Korean Existing Chemicals List (ECL)
New Zealand Inventory of Chemicals (NZIoC)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)
Mexican National Inventory of Chemical Substances (INSQ)
Taiwan Chemical Substance Inventory (TCSI)

Section 16 Other Information

Prepared By **SJ Environmental Corp.**
1155 Dairy Ashford Rd., Suite 825
Houston, Texas 77097

Revision Date **18 July 2025**

Disclaimer: Information provided by SJ Environmental Corp. is accurate to the best of our knowledge and belief as of the date of publication. SJ Environmental Corp. warrants this SDS conforms to OSHA and applicable GHS standards as of the revision date. This document is intended solely as guidance for safe handling, processing, storage, transportation, disposal, and use of the designated product. It is not a guarantee of product performance nor a legally binding warranty or specification. Information pertains exclusively to the specific material identified herein and may not apply when the material is used in combination with other substances or in applications beyond documented scope. SJ Environmental Corp. assumes no responsibility for unintended use, regulatory misinterpretation, or failure to follow applicable handling protocols. Compliance with all relevant local, state, and federal regulations remains the sole responsibility of the user.