

WSU HYPO-CLEAN

1. IDENTIFICATION

Product Name: WSU HYPO-CLEAN

Synonyms: none

CAS Number: N/A

Recommended Product Use: A liquid inhibitor designed to prevent the clogging of sodium hypochlorite and calcium hypochlorite injection lines. Designed for high hardness waters (200-400 mg/L).

Supplier: Water Solutions Unlimited, Inc.

Address: 8824 Union Mills Drive
Camby, IN 46113
800-359-3570

Emergency Number: CHEMTREC (800-424-9300)

2. HAZARDS IDENTIFICATION

GHS Classification:

Health
Acute toxicity, oral - Cat. 5
Acute toxicity, dermal - Cat. 5
Eye irritation, Cat. 2B
Skin irritation, Cat. 3

GHS Label:

WARNING!**Hazard Statements**

May be harmful if swallowed

May be harmful in contact with skin

May be harmful if mist or vapor is inhaled

Causes eye irritation

Causes mild skin irritation

Precautionary Statements

Wash skin thoroughly after handling

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

Call a POISON CENTER or doctor if you feel unwell.

If eye irritation persists: Get medical attention.

3. COMPOSITION/INFORMATION ON INGREDIENTSIngredient(s): Confidential**4. FIRST AID MEASURES**

WSU HYPO-CLEAN

Inhalation: Immediate first aid is not likely to be required. If victim feels unwell, remove to fresh air. Remove material from eyes, skin, and clothing.

4. FIRST AID MEASURES (Continued)

Ingestion: If swallowed, immediate first aid is not likely to be required. Swallowing large amounts may cause abdominal discomfort and diarrhea. Call a POISON CENTER or doctor if you feel unwell.

Skin Contact: Wash exposed areas with water. Immediate First Aid is not likely to be required. Wash heavily contaminated clothing before reuse.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Specific Hazards: Not combustible.

Fire Fighting Procedures: No special requirements.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: No special requirements. Wear appropriate clothing (eye protection, gloves) to minimize exposure to accidental releases.

Environmental precautions:

Small Quantities - Presents no environmental problems.

Large Quantities - Avoid discharge into the environment.

Methods and materials for containment and cleaning up: Contain with dikes and transfer the material to appropriate containers for reclamation or disposal. Absorb remaining material or small spills with an inert material and place in a chemical waste container. Flush residual spill area with large amounts of water.

7. HANDLING AND STORAGE

Handling: Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin, and clothing.

Storage: Store in a cool, dry place to maintain product performance. Protect from freezing.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Limits:

WSU HYPO-CLEAN

OSHA Permissible Exposure Limit (PEL): No established specific exposure limits for this material.

8. EXPOSURE CONTROL/PERSONAL PROTECTION (Continued)

ACGIH Threshold Limit Value (TLV): No established specific exposure limits for this material.

Engineering Controls:

Ventilation System: Provide natural or mechanical ventilation to minimize exposure. The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment. Consult NFPA Standard 91 for design of exhaust systems.

Respiratory Protection: Avoid breathing vapor or mist. Use NIOSH/MSHA approved respiratory protection equipment (full facepiece recommended) when vapor or mist is present. If used, full faceshield replaces the need for face shield and/or chemical goggles. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application.

Eye Protection: Where there is potential for eye contact, wear goggles and have eye wash equipment immediately available.

Hand/Skin Protection: Wear appropriate clothing and chemical resistant gloves to prevent skin contact. Wear chemical goggles, a face shield, and chemical resistant clothing where splashing is likely. Wash immediately if skin is contaminated. Remove contaminated clothing promptly and launder before reuse. Clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, syrupy liquid
Odor:	No distinct odor
Odor threshold:	Not applicable
pH (1% solution @ 25° C):	5.0 - 7.0
Melting point:	Not applicable
Freezing point:	< 0° C (32° F)
Boiling point:	100° C (212° F)
Flash point:	Not combustible
Evaporation rate:	No information found
Flammability:	Not flammable
Upper Flammability limit:	Not applicable
Lower Flammability limit:	Not applicable
Vapor pressure:	No information found
Vapor density (Air = 1):	No information found
Specific gravity (@ 25° C):	1.36 - 1.38
Solubility:	Complete
Auto-ignition temperature:	Not applicable
Decomposition temperature:	Not applicable
Viscosity (@ 25° C):	No information found

Note: These physical data are typical values and may vary from sample to sample. Typical values should not be considered as a guaranteed analysis of any specific lot or as a specification for the product.

10. STABILITY AND REACTIVITY

Chemical Stability: Product is stable under normal conditions of storage and handling.

Conditions to avoid: Protect from freezing.

Incompatible Materials and Hazardous Reactions: None known.

Hazardous Decomposition Products: None known.

11. TOXICOLOGICAL INFORMATION

Data from vendor of single-dose (acute) animal studies of ingredients in this material are given below:

Oral - rat LD ₅₀ :	6600 mg/kg
Dermal - rabbit LD ₅₀ :	> 7940 mg/kg
Eye irritation - rabbit:	1.3/110; slightly irritating
Skin irritation - rabbit:	0.0/8.0; non-irritating
Inhalation:	no information
Mutagenicity:	no information
Carcinogenicity:	no information
Reproductive toxicity:	no information
STOT-single exposure:	no information
STOT-repeated exposure:	no information
Aspiration hazard:	no information

Possible Routes of Exposure: Skin contact and inhalation.

Eye/Skin: No more than slightly irritating. This material may cause foreign body irritation in some individuals. Prolonged skin contact may cause drying and chapping.

Ingestion: No more than slightly toxic if swallowed. No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed.

Inhalation: Inhalation of the mist or vapor may cause coughing and sneezing.

12. ECOLOGICAL INFORMATION

Toxicity: No environmental toxicity studies have been conducted on this product.

Bioaccumulative potential: No information found.

Mobility in soil: Inorganic compounds in contact with the soil, sub-surface or surface waters may be taken up by plants and utilized as essential nutrients. Phosphates may also form precipitates, usually with calcium or magnesium. The resultant compounds are insoluble in water and become a part of the soil or sediment.

13. DISPOSAL CONSIDERATIONS

WSU HYPO-CLEAN

Whatever material cannot be saved for recovery or recycling when discarded is not considered as a hazardous waste as defined by the U.S. Resource Conservation and Recovery Act (RCRA). Processing, use, or contamination of this product may change the waste management options. State and local disposal regulations may differ from Federal disposal regulations. Dispose of container and unused contents in accordance with Federal, State, and Local requirements.

14. TRANSPORT INFORMATION

This product is not considered hazardous under applicable U.S. DOT regulations. Apply appropriate regulations to properly classify this product for transportation.

15. REGULATORY INFORMATION

Chemical Inventory:

US TSCA (Ingredients): Listed
Canada DSL (Ingredients): Listed
EC (Ingredients): Listed

SARA Hazard Notification:

Ingredient:

Hazard Categories Under Title III Rules

(40 CFR 370): Not Applicable

SARA 302 Extremely Hazardous Substances: Not Applicable

SARA 313 Toxic Chemicals: Not Applicable

CERCLA Reportable Quantity: Not Applicable

Refer to Section 13 for RCRA classification. Since local, state, and federal laws vary, consult your attorney or appropriate regulatory officials for information relating to spill reporting.

16. OTHER INFORMATION

NFPA Rating:

Health: 1
Flammability: 0
Reactivity: 0

HMIS Rating:

Health: 1
Flammability: 0
Reactivity: 0

Date of preparation: 2/19/2013

Reason for revision: adopted GHS format for Safety Data Sheet

WSU HYPO-CLEAN

The information and recommendations in this Safety Data Sheet are presented in good faith and believed to be correct as of the date hereof, however, Water Solutions Unlimited, Inc. ("Water Solutions Unlimited") makes no representations as to the completeness or accuracy thereof. Conditions of use are beyond Water Solutions Unlimited's control and therefore users are responsible to verify this data under their own operating conditions to determine the suitability for their purposes prior to use. In no event will Water Solutions Unlimited be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.