Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **IWM 997A**
Corrosion Inhibitor

Issue Date: October 2015

Manufacturer:
Integrated Water Management, Inc.
289 Cortland Drive
Dryden, NY 13053
Phone Number: 607.844.4276

24 Hour Emergency Number: 800.255.3924

2. HAZARDS IDENTIFICATION

GHS Classification: SKIN CORROSION / IRRITATION – Category 1
SERIOUS EYE DAMAGE / EYE IRRITATION – Category 1
ACUTE TOXICITY – DUE TO INHALATION – Category 4

Signal Word: Danger

Pictograms:

Hazard Statements: Causes severe skin burns and eye damage. Harmful if swallowed.

Precautionary Statements:

Prevention: Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep only in original container. Wash hands thoroughly after handling.

Response: Absorb spillage to prevent material damage.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician.
IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

Storage: Store in corrosive resistant container with a resistant inner liner.

Disposal: See section 13 for waste disposal information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS Number/Name		Percentage
1310-73-2	Sodium Hydroxide (NaOH)	1 – 5%
7631-95-0	Sodium Molybdate	1 – 10%

4. FIRST AID MEASURES

Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Skin Contact:	Take off immediately all contaminated clothing. Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.
Ingestion:	Get medical attention immediately. Rinse mouth. Do NOT induce vomiting.
Note to Physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. FIRE FIGHTING MEASURES

Flash Point:	Non-flammable
Method:	Non-flammable
Autoignition Temperature:	Non-flammable
Flammable Limits in Air, by Volume:	**Upper**: Non-flammable **Lower**: Non-flammable
Extinguishing Media:	Non-flammable/Non-combustible Use water spray to keep fire-exposed containers cool.
Fire Fighting Procedures:	Use water to cool containers, but avoid getting water into containers. Wear NIOSH/MSHA approved positive-pressure self-contained breathing apparatus and full protective clothing.
Fire and Explosion Hazard:	In water solution, caustic soda can react with metals, such as aluminum, and generate hydrogen gas.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Evacuate unnecessary personnel.

Follow protective measures provided under Personal Protection in Section 8.

Environmental Precautions

According to CERCLA regulations, environmental releases that exceed the RQ must be reported to the National Response Center at 1.800.424.8802. State and local response centers may also need to be contacted.

Contain liquids and prevent discharges to streams or sewers. Large leaks may require environmental consideration and possible evacuation.

Methods for Cleaning Up

Dry material can be shoveled up. Liquid material can be removed with a vacuum truck. Neutralize remaining traces with any dilute inorganic acid. Flush spill area with water followed by a liberal covering of sodium carbonate. All clean-up material should be removed for proper treatment or disposal. Affected soils should be removed and placed in approved containers.

7. HANDLING AND STORAGE

Handling

Avoid breathing the mist or vapors. Do not get in eyes, on skin, or on clothing. Wash contaminated clothing before reuse. Do not take internally. Wear personal protective equipment as described in Exposure Controls/Personal Protection (Section 8) of the SDS. Wash thoroughly after handling; exposure can cause burns, which are not immediately painful or visible. Containers, even those that have been emptied, will retain product residue and vapor and should be handled as if they were full.

Special Mixing and Handling Instructions

When making solutions, ALWAYS wear ALL protective clothing described in Section 8 of this SDS. NEVER add water to product. ALWAYS add product, with constant stirring, slowly to water, to assure product is being completely mixed as it is added. Before adding product, ALWAYS empty and clean containers of all residues to avoid a possible VIOLENT reaction between product and unknown residue. Returnable containers should be shipped in accordance with supplier's recommendations. Return shipments should comply with all federal, state, and DOT regulations. All residues should be removed from containers prior to disposal.

Storage
Keep container tightly closed and properly labeled.
Dikes should hold 110% of storage volume.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CAS Number/Name
1310-73-2 Sodium Hydroxide (NaOH)
Exposure Limits
PEL: 2 mg/m^3
TLV: 2 mg/m^3

CAS Number/Name
7631-95-0 Sodium Molybdate
Exposure Limits
PEL: 5 mg/m^3
TLV: 5 mg/m^3

Engineering Controls
No special ventilation required under normal use.
Where engineering controls are not feasible use adequate local exhaust ventilation wherever mist, spray, or vapor may be generated.

Personal Protection
Respiratory:
Respiratory protection is not required under normal use.
If needed, wear an approved NIOSH/MSHA respirator.
Eye/Face:
Wear chemical safety goggles. (ANSI Z87.1)
When appropriate, use a face shield to protect against splashing.
Skin:
Wear chemical resistant gloves such as rubber, neoprene, or vinyl.
Wash contaminated clothing and dry before reuse.
Whenever there is a possibility of splash or contact, wear chemical resistant clothing and boots.
Discard shoes that cannot be decontaminated.
Other:
Emergency shower and eyewash facility should be in close proximity. (ANSI Z358.1)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Dark
Odor	Nil
Boiling Point	>212°F
Melting Point	ND
Specific Gravity (Water = 1)	1.13
Solubility in Water	Completely soluble
pH (1% solution)	6.5 – 7.0
Vapor Pressure (Air = 1)	ND
Vapor Density (Air = 1)	ND
Evaporation Rate (Butyl acetate = 1)	ND

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Reacts with: Strong acids and soft metals
Hazardous Polymerization: Will not occur
Comments:
Product is corrosive to copper, aluminum, zinc, and alloys containing these metals and will react with these metals in powder form. Avoid contact with leather, wool, acids, organic halogen compounds, or organic nitro compounds. See Handling and Storage in Section 7.
Hazardous Decomposition Products: Oxides of carbon, nitrogen and hydrogen gas.

11. TOXICOLOGICAL INFORMATION

Causes severe burns to the eyes, skin, and mucous membrane. May cause permanent eye damage. Inhalation of mist or spray can produce burns of the respiratory tract.

Potential Health Effects

Routes of entry:	Inhalation, Ingestion, Skin Contact
Target Organs:	Eyes, skin, respiratory tract, and gastrointestinal tract
Irritancy:	Liquid, vapors, or mist may be irritating to eyes, skin, and respiratory tract.
Sensitizing Capability:	None known
Reproductive Effects:	None known
Cancer Information:	None known

Short Term Exposure (Acute)

Inhalation: Exposure to vapor, mist, or liquid can produce burns o1111f the respiratory tract. Excessive exposures could result in chemical pneumonia.
Eyes: Contact can cause tissue damage including burns and possibly blindness.
Skin: Contact can cause severe burns and tissue destruction. Effects may be delayed.
Ingestion: Corrosive. Severe burns and complete tissue perforation of mucous membranes of mouth, throat, and stomach.

Repeated Exposure (Chronic)
None known
Synergistic Materials
None known
Medical Conditions Aggravated by Exposure
None known

12. ECOLOGICAL INFORMATION

Keep out of sewers, drainage areas, and waterways. Report spills and releases, as applicable, under federal and state guidelines.

13. DISPOSAL INFORMATION

Dispose of all waste and contaminated equipment in accordance with all applicable federal, state, and local health, and environmental regulations.

14. TRANSPORT INFORMATION

DOT Identification Number:	UN1824
DOT Proper Shipping Name:	Sodium Hydroxide Solution
DOT Hazard Class:	8 (corrosive)
DOT Packaging Group:	II
DOT Hazardous Substance:	RQ 1,000 Lbs. (Sodium Hydroxide)
DOT Marine Pollutant(s):	Not applicable
Additional Description Requirement:	Not applicable
ERG Number:	154

15. REGULATORY INFORMATION

SARA Title III

To aid our customers in complying with regulatory requirements, the following chemicals fall under SARA Title III Hazard categories as listed in 40.CFR.370. Please consult these regulations for details.

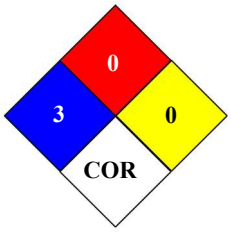
Chemical Name	CAS Number
Sodium Hydroxide	1310-73-2

16. OTHER INFORMATION

HMIS

	3	Health
	0	Flammability
	0	Physical Hazard
	D	Protective Equipment

NFPA



For additional non-emergency health, safety, or environmental information, contact:

Integrated Water Management, Inc.
289 Cortland Drive
Dryden, NY 13053
Phone Number: 607.844.4276

The information on this Safety Data Sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method of application which is not described in the Product Data Sheet is the responsibility of the user. IT IS FURNISHED WITHOUT WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED.