

**Section 1: IDENTIFICATION**

<b>PRODUCT NAME</b>	<b>Clean</b>
<b>ADDITIONAL NAME</b>	Hypochlorous Acid (HOCL)
<b>RECOMMENDED USE</b>	Agricultural. Cleaning lines and roots.
<b>CAS#</b>	NA-mixture
<b>DATE OF REVISION</b>	02/02/2022
<b>COMPANY</b>	Ninurta, Inc. 1219 Roseburg Ct., Visalia, CA 93291 Phone: (844) 646-8782 Email: admin@ninurta.ag
<b>EMERGENCY PHONE</b>	(844) 646-8782

**Section 2: HAZARD IDENTIFICATION**

<b>CLASSIFICATION</b>	This chemical is not considered hazardous by the 2021 OSHA Hazard Communication Standard (29 CFR 1910.1200). Hypochlorous Acid (HOCL)
<b><u>OSHA HCS 2012</u></b>	
<b><i>LABEL ELEMENTS</i></b>	None
<b>SIGNAL WORD</b>	Not applicable
<b>HAZARD SYBOL(S)/PICTOGRAM(S)</b>	See Section 16
<b>PRECAUTIONARY STATEMENTS, GENERAL</b>	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.
<b>PREVENTION</b>	Keep away from heat. Do not breathe dust, vapor and/or spray. Wash thoroughly. Wear eye protection and gloves.
<b>RESPONSE</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair). Rinse skin with water/shower. For specific treatments see FIRST AID section on SDS or label.
<b>STORAGE</b>	Keep only in original container. Protect from sunlight.
<b>DISOSAL</b>	Dispose of contents/ container in accordance with local/ regional/ national/ international regulations.

**Section 3: COMPOSITION / INFORMATION ON INGREDIENTS****GENERAL**

This product contains no substances which, at their given concentration, are considered to be hazardous to health.

<b><u>Ingredient</u></b>	<b><u>CAS Number</u></b>	<b><u>EINECS Number</u></b>	<b><u>Percent Range</u></b>
Water	7732-18-5	231-791-2	>98.92%
Sodium Chloride	7647-15-5	231-598-3	<01.00%
Hypochlorous Acid	7790-92-3	232-232-5	0.0700-0.0800%

*Any concentration shown as a range is to protect confidentiality or is due to batch variation.*

**Section 4: FIRST AID MEASURES**

**General:** This product is not known to cause respiratory problems, irritation to the eyes or skin, nor discomfort if ingested while in normal user per label.

**Eye Contact:** Flush eyes with clean running water for at least 15 minutes. If irritation persists, get medical attention.

**Skin Contact:** Non-irritating. If irritation develops, or if rash develops, get medical attention.

**Ingestion:** Drink plenty of water. Seek medical advice if irritation develops.

**Inhalation:** If discomfort develops, move to fresh air. Obtain medical attention if additional symptoms occur.

**Most Important Symptoms/Effects, Acute and Delayed:** For symptoms and effects see Section 11.

**Indication of Immediate Medical Attention and Special Treatment Needed:** *Notes to Physician:* Treat symptomatically.

**Section 5: FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstance and the surrounding environment.

**Specific Hazards Arising from Chemical:** None known.

**Hazardous Combustion Products:** Non-combustible. This material will not burn.

**Special Protective Actions for Fire-Fighters:** No special protective equipment required.

*This product is non-flammable. See Section 9 for Physical Properties.*

**Section 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment, and Emergency Procedures:** No special protective equipment required.

**Environmental Precautions:** Do not allow spills to enter waterway.

**Methods and Materials for Containment and Clean Up:** Stop leak and move containers from spill area. Dilute with water and mop up. Alternatively, absorb with an inert dry material and place in an appropriate waste disposal container. *See section 13 for more information.*

**Section 7: HANDLING AND STORAGE**

**Precautions for Safe Handling:** Wear suitable personal protective equipment as outlined in Section 8. Refrain from eating, drinking, or smoking in locations where this substance is managed, stored, or processed. Prior to consuming food, beverages, or smoking, employees must cleanse their hands and face. Handle in accordance with good industrial hygiene and safety practice. Additional details on hygiene practices can be found in Section 8.

**Conditions for Safe Storage including Incompatibilities:** Keep containers tightly closed in a dry, cool place. Store in original container, at room temperature, away from direct sunlight and heat. Do not allow to freeze. Incompatible with reducing agents. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

**Materials to avoid:** Avoid strong acids and oxidizing agents.

**Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Guidelines:** This product, as supplied, does not contain any hazardous materials.

**Appropriate Engineering Controls:** Adequate general ventilation is recommended to effectively manage worker exposure to airborne contaminants.

**Individual Protection Measures / Personal Protective Equipment (PPE)**

**Eye/Face Protection:** Utilize safety eyewear that meets an approved standard when a risk assessment indicates the need to prevent exposure to liquid splashes, mists, gases, or dusts.

**Respiratory Protection:** Typically unnecessary under standard conditions. Employ with proper ventilation. Utilize a NIOSH-approved respirator when exposed to dust, mists, or vapor.

**Skin/Body Protection:** Wear gloves that are resistant to chemicals and impervious. Also, wear a long-sleeved shirt along with socks and shoes.

**General Hygiene Considerations:** Handle in accordance with good industrial hygiene and safety practice.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Clear, Colorless	<b>Specific Gravity</b>	1.0
<b>Autoignition</b>	Not determined	<b>Relative Density</b>	Not determined
<b>Temperature</b>		<b>Viscosity</b>	Not determined
<b>Physical State</b>	Liquid	<b>pH</b>	4.0-6.0
<b>Odor</b>	Mild chlorine	<b>Partition Coefficient:</b>	Not determined
<b>Odor Threshold</b>	Not determined	<b>Solubility in Water</b>	(water)complete
<b>Melting/Freezing Point</b>	Approximately -0.1°C	<b>% Volatiles</b>	Not determined
<b>Boiling Point/ Range</b>	Approximately 101°C	<b>Evaporation Rate</b>	Not determined
<b>Flash Point</b>	Not determined	<b>Vapor Pressure</b>	Not determined
<b>Decomposition</b>	Not determined	<b>Vapor Density</b>	Not determined
<b>Temperature:</b>			

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

**Section 10: STABILITY AND REACTIVITY**

**Reactivity:** Product is stable and non-reactive under normal conditions of use, storage, and transport.

**Chemical Stability:** Material is stable under normal and recommended storage conditions. Use within expiration.

**Possibility of Hazardous Reactions:** No dangerous reaction known under normal conditions of storage and use.

**Conditions to Avoid:** Avoid excessive heat, direct sunlight, and freezing temperatures.

**Incompatible Materials:** Ammonia, ammonium salts, reducing agents, reactive metals, aziridines, methanol, formic acid.

**Hazardous Decomposition Products:** Avoid adding acid or heating solution as it may liberate chlorine gas.

**Section 11: TOXICOLOGICAL INFORMATION**

<b>Likely Routes of Exposure:</b>	Inhalation -	No known hazards in normal use.
	Skin Contact -	No known hazards in normal use.
	Eye Contact -	No known hazards in normal use.
	Ingestion -	No known hazards in normal use.

**Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:** No symptoms expected under typical use conditions. *See Section 4 for Symptoms.*

**Delayed and Immediate Effects and/or Chronic Effects from Short-and-Long Term Exposure:** Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC, or NTP.

**Numerical Measures of Toxicity:** Not available.

<b>Acute Toxicity:</b>	Oral Exposure:	No observed effects.
	Dermal Exposure:	No observed effects.
	Inhalation Exposure:	No observed effects.

**Sensitization:** This product is not known to cause sensitization.

**Mutagenic Effects:** No data available.

**Carcinogenicity:** Contains no ingredient listed as a carcinogen.

**Reproductive Toxicity:** No data available.

**STOT-Single Exposure:** No data available.

**STOT-Repeated Exposure:** No data available.

**Target Organ Effects:** None known.

**Aspiration Hazard:** No data available.

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** This product is not classified as hazardous to the environment. .

**Aquatic:** Volume of ingredients used does not trigger toxicity classifications under the Globally Harmonized System of Classification and Labelling of Chemicals.

## Section 13: DISPOSAL CONSIDERATIONS

**Unused or Used Liquid:** The material, as supplied is not a hazardous waste according to Federal regulations (40 CFR 261). The material could become hazardous waste if it is mixed with or otherwise comes in contact with hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Empty Containers:** May be offered for recycling.

## Section 14: TRANSPORT INFORMATION

<b>U.N. Number:</b>	Not applicable.
<b>Transport Hazard Class(es):</b>	Not applicable, safe to air ship.
<b>Packing Group:</b>	Not applicable.
<b>Environmental Hazards</b>	Not applicable.
<b>U.S. (DOT) / Canadian TDG:</b>	Not regulated for shipping.
<b>IMO / IMDG:</b>	Not classified as hazardous.
<b>U.N. Proper Shipping Name:</b>	Not applicable.
<b>Special Precautions:</b>	Not applicable.
<b>ICAO / IATA:</b>	Not classified as hazardous.
<b>ADR / RID:</b>	Not classified as hazardous.

**Section 15: REGULATORY INFORMATION**

**All components are listed on:** TSCA and DSL Inventory.

**SARA Title III:****Sections 311/312 Hazard Categories**

Acute Health: No Chronic Health: No Fire Hazard: No Sudden Release of Pressure Hazard: No Reactive Hazard: No .

**Sections 313 Superfunds Amendments and Reauthorizations Act of 1986**

This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**Clean Air Act (CAA):** This product does not contain any substances regulated as pollutants pursuant to the CAA.

**Clean Water Act (CWA):** This product does not contain any substances regulated as pollutants pursuant to the CWA.

**California Proposition 65:** This product does not contain any Proposition 65 chemicals. CERCLA: This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to release of this material.

**Section 16: OTHER INFORMATION**

**Disclaimer and Limitation of Liability:** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials nor in any process, unless specified in the test.

For additional information, call us at 1-844-646-8782 or visit [www.ninurta.ag](http://www.ninurta.ag).

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