

HOCI-AS200 — EPA-Registered Disinfectant

Revision 08 · 7 October 2026 · Supersedes Revision 07, 15 August 2025

SECTION 1: Identification

Product identifier	HOCI-AS200, ready-to-use hypochlorous acid disinfectant
Other means of identification	HOCI-AS200; AS200. Hypochlorous acid solution; electrolysed water; anolyte.
EPA registration number	101112-1
EPA establishment number	101112-FL-1
Recommended use	Cleaning, disinfecting and deodorizing of hard, non-porous surfaces at the sites listed on the EPA-approved label
Restrictions on use	Use only in the manner directed by the EPA-approved label supplied with the product. It is a violation of federal law to use this product in a manner inconsistent with its labeling. Not a sterilant and not for terminal sterilization of instruments that contact sterile body areas. Not for injection, inhalation therapy or internal medical use. Not to be diluted with, or mixed into, any other product (Sections 7 and 10).
Supplier	EcoloxTech Inc., West Palm Beach, FL 33413, USA
Telephone	+1 561-783-8090 (business hours)
E-mail	sales@ecoloxtech.com
Emergency telephone	Health emergencies: Poison Control 1-800-222-1222 (USA, 24 hours). Pesticide information: National Pesticide Information Center 1-800-858-7378. All other emergencies: +1 561-783-8090 during business hours.

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

OSHA Hazard Communication Standard, 29 CFR 1910.1200: **Not classified.** On the composition given in Section 3, this mixture does not meet the criteria for classification in any physical, health or environmental hazard class.

2.2 Label elements

This product is an **EPA-registered pesticide**. Its container label is written to FIFRA, not to the HCS, and the two sets of criteria are not the same. Both of the following are correct at once, and neither cancels the other out: the mixture is not classified under the HCS, **and** the container bears the FIFRA signal word **CAUTION**. The FIFRA label text is reproduced in Section 15.

Pictogram	None required under the HCS
Signal word	None required under the HCS. CAUTION on the FIFRA container label.
Hazard statements	None required under the HCS
Precautionary statements	None required under the HCS. The FIFRA precautionary statements are mandatory and appear in Section 15. See also Section 7.

2.3 Hazards not otherwise classified (HNOC)

Contact with acid liberates chlorine gas. Do not mix this product with acidic cleaners, descalers, toilet bowl cleaners, rust removers or any other acid. Chlorine is an acute respiratory irritant; see Sections 8 and 10. This is also a labelled prohibition under FIFRA, not only an HNOC.

Mixing with ammonia or ammonia-based cleaners can form chloramines, which are also respiratory irritants.

Prolonged contact with metal may cause pitting or discolouration. The solution may bleach or discolour textiles. Spilled liquid makes floors slippery.

The product is applied as a spray, which generates a mist. Do not deliberately breathe it, and ventilate the area where the product is sprayed or fogged in quantity or in a confined space (Section 8).

2.4 Ingredients of unknown acute toxicity

None. No component of this mixture is of unknown acute toxicity.

SECTION 3: Composition / information on ingredients

This product is a **mixture**. The active ingredient and its concentration are those of the registered formulation.

Chemical name	Formula	CAS No.	EC No.	Concentration (% w/v)
Hypochlorous acid (<i>active ingredient</i>)	HOCl	7790-92-3	232-232-5	0.0174
Sodium chloride	NaCl	7647-14-5	231-598-3	< 0.33
Water	H ₂ O	7732-18-5	231-791-2	Balance to 100

The EPA-approved label declares the active ingredient as hypochlorous acid 0.0174% and other ingredients 99.9826%. The sodium chloride and water rows above resolve that "other ingredients" figure and are given for transparency; neither is classified as a health or physical hazard at the concentration present, and neither is above the cut-off that would require disclosure as a hazardous ingredient. No information is withheld as a trade secret.

SECTION 4: First-aid measures

4.1 Description of first-aid measures

Inhalation	Adverse effects are not expected. Move the person to fresh air. If breathing is difficult or irritation persists, get medical advice.
Skin contact	Adverse effects are not expected. Rinse the skin with water. If irritation develops, get medical advice.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, then continue rinsing. If irritation persists, get medical advice.
Ingestion	Rinse the mouth and drink a glass of water. Adverse effects are not expected from the quantity likely to be swallowed. Do not induce vomiting. If the person feels unwell, get medical advice.

Have the product container or label with you when calling a poison control centre or a doctor, or when going for treatment.

4.2 Most important symptoms and effects, both acute and delayed

No symptoms are expected under the labelled conditions of use. A faint chlorine odour may be noticeable.

If chlorine gas has been liberated by mixing with acid, expect stinging eyes, coughing and throat irritation. Serious chlorine exposure can cause pulmonary oedema that is **delayed by several hours**.

4.3 Indication of immediate medical attention and special treatment

Treat symptomatically; there is no specific antidote. Following any significant inhalation of liberated chlorine, keep the person under medical observation for delayed respiratory effects even if they appear well initially.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable	The product is aqueous and non-combustible. Use any medium suitable for the surrounding fire — water spray, carbon dioxide, dry chemical or foam.
Unsuitable	None known.

5.2 Special hazards arising from the substance or mixture

Not flammable and does not support combustion. Heat from a surrounding fire will decompose the product and may liberate chlorine and hydrogen chloride. Closed containers may build pressure and rupture if heated.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing in any confined-space or container fire. Cool exposed containers with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No special measures are needed for the spill sizes normally encountered. Ventilate the area. Keep the spill away from acids. Take care: wet floors are slippery.

6.2 Environmental precautions

Do not discharge large volumes to surface water or to storm drains without consulting the local authority. Free chlorine is harmful to aquatic organisms, although the residual in this product degrades rapidly to chloride (Section 12).

6.3 Methods and material for containment and cleaning up

Contain the spill. Mop up, or absorb with an inert material such as cloth or paper towel, and rinse the area with water. Used cleaning materials may be disposed of as normal refuse.

6.4 Reference to other sections

See Section 8 for personal protection and Section 13 for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not use this product with other household or industrial chemicals such as toilet bowl cleaners, rust removers or acids. To do so will release hazardous, irritating gas. This is a prohibition on the EPA-approved label, and using the product otherwise is a violation of federal law.

Maintain general industrial hygiene practice. Do not transfer to an unlabelled container. Wash hands after use. Avoid contact with dark fabrics, which may be discoloured, and avoid prolonged contact with metal, which may be pitted or discoloured.

Preclean visibly soiled surfaces before applying. Apply so that the surface is thoroughly wet and keep it visibly wet for the full contact time stated on the label; the contact time is the condition of the efficacy claim.

7.2 Conditions for safe storage, including any incompatibilities

Store in the original sealed container at room temperature, away from direct sunlight and heat. Keep the container tightly closed when not in use. Do not store with acids, ammonia, hydrogen peroxide or reducing agents. **Keep out of reach of children.**

Available chlorine declines with heat, UV exposure and time. If the product is not used promptly, confirm the concentration with a chlorine test kit before use: **do not use below 149 ppm available chlorine**, the minimum on which the registered efficacy claims depend.

The container is **non-refillable**. Do not reuse or refill it.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Component	CAS No.	OSHA PEL	ACGIH TLV	NIOSH REL
Hypochlorous acid	7790-92-3	None established	None established	None established
Sodium chloride	7647-14-5	None established	None established	None established
Water	7732-18-5	None established	None established	None established

Chlorine is not a component of this product. It is listed here because it is a decomposition product (Section 10). OSHA PEL (general industry): 1 ppm (3 mg/m³) ceiling. NIOSH REL: 0.5 ppm (1.45 mg/m³) ceiling, 15 minutes. NIOSH IDLH: 10 ppm. ACGIH TLV-TWA: 0.5 ppm; TLV-STEL: 1 ppm — confirm against the current TLV booklet, as ACGIH values are revised annually.

8.2 Exposure controls

Engineering controls	General room ventilation is adequate for normal use. Where the product is sprayed or fogged, or used in a confined space, provide local exhaust or mechanical ventilation.
Eye and face protection	Not required for normal use. Wear safety glasses where splashing is possible.

Skin protection	Not required for normal use. Nitrile, latex or vinyl gloves and a chemical apron may be worn where prolonged contact is likely.
Respiratory protection	Not required with adequate ventilation. Do not deliberately breathe mist or vapour.
Thermal hazards	None.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Property	Value
Physical state	Liquid
Colour	Clear, colourless
Odour	Faint chlorine odour
Odour threshold	Not determined for the mixture
pH	3.5 – 7.5
Available chlorine	Not less than 149 ppm in use (see Section 7). Declines with heat, UV exposure and time.
Melting point / freezing point	Approximately 0 °C (32 °F)
Boiling point / boiling range	Approximately 100 °C (212 °F), with decomposition
Flammability	Not flammable
Lower and upper explosion limit	Not applicable
Flash point	Not applicable — aqueous solution
Auto-ignition temperature	Not applicable
Decomposition temperature	Not determined. Available chlorine is lost on heating and on exposure to UV light.
Vapour pressure	Approximately 2.3 kPa at 20 °C (as water)
Vapour density (air = 1)	Approximately 0.62 (as water vapour)
Relative density	1.01 at 20 °C
Solubility in water	Miscible
Partition coefficient n-octanol/water	Not applicable — inorganic aqueous solution
Viscosity	Approximately 1 mPa·s at 20 °C (as water)
Particle characteristics	Not applicable — liquid

9.2 Other information

No explosive properties. No oxidising properties at the concentration present. Values shown as "as water" are those of the aqueous carrier, which dominates the physical behaviour of the mixture at these concentrations.

SECTION 10: Stability and reactivity

10.1 Reactivity	Not reactive under the labelled conditions of use and storage.
10.2 Chemical stability	Stable in the closed original container under the conditions in Section 7. Available chlorine declines with heat, UV exposure and time; see the product label for shelf life and Section 7 for the 149 ppm floor.
10.3 Possibility of hazardous reactions	Reacts with acids to liberate chlorine gas. Reacts with ammonia and amines to form chloramines.
10.4 Conditions to avoid	Heat, direct sunlight and UV light.
10.5 Incompatible materials	Acids, acidic cleaners, toilet bowl cleaners and rust removers; ammonia and amines; hydrogen peroxide; reducing agents; heavy metals and ethers. Prolonged contact may pit or discolour susceptible metals.
10.6 Hazardous decomposition products	Chlorine (Cl ₂). Chloramines if mixed with ammonia-based products.

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Likely routes of exposure Skin contact, eye contact and inhalation of mist are the routes relevant to normal use. Ingestion is possible but unlikely.

Endpoint	Classification
Acute toxicity — oral	Not classified
Acute toxicity — dermal	Not classified
Acute toxicity — inhalation	Not classified
Skin corrosion / irritation	Not classified
Serious eye damage / eye irritation	Not classified
Respiratory sensitisation	Not classified
Skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity — single exposure	Not classified
Specific target organ toxicity — repeated exposure	Not classified
Aspiration hazard	Not classified

Numerical measures of toxicity

No acute toxicity estimate has been determined for the mixture as supplied. Component data: sodium chloride, oral LD₅₀ (rat) approximately 3,000 mg/kg body weight. No component is present at a concentration that would contribute to classification.

Carcinogen listings

No component of this product is listed by the National Toxicology Program (NTP) Report on Carcinogens, by the International Agency for Research on Cancer (IARC), or as a carcinogen by OSHA.

Symptoms

No symptoms are expected from the product as supplied. Symptoms arising from chlorine liberated by mixing with acid are described in Section 4.2.

SECTION 12: Ecological information

12.1 Toxicity	Not determined for the mixture. Free chlorine is toxic to aquatic organisms at low concentrations; the residual present in this product degrades rapidly to chloride on contact with organic matter and on standing, so a persistent effect from normal use and disposal is not expected.
12.2 Persistence and degradability	The hypochlorous acid component degrades rapidly. The residue is sodium chloride in water.
12.3 Bioaccumulative potential	None expected. The components are inorganic and do not bioaccumulate.
12.4 Mobility in soil	Miscible with water and fully mobile.
12.5 Other adverse effects	None known. Not an ozone-depleting substance.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Follow the storage and disposal instructions on the EPA-approved label. The label provides that wastes from the use of this product may be disposed of on site or at an approved waste disposal facility.

In the form supplied, this product is not a listed hazardous waste under 40 CFR 261 Subpart D, and it does not exhibit a characteristic of hazardous waste under 40 CFR 261 Subpart C. In particular it is not corrosive under 40 CFR 261.22, which applies to aqueous wastes with a pH of 2 or lower or 12.5 or higher.

Confirm against state and local rules, which may be more restrictive than the federal position above. Do not contaminate water, food or feed by disposal.

Contaminated packaging

Non-refillable container. Do not reuse or refill. Empty containers should be taken to an approved waste handling site for recycling or disposal, as the label directs.

SECTION 14: Transport information

This product is **not regulated as a dangerous good** by US DOT (49 CFR), IATA or IMDG.

14.1 UN number	Not applicable
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class(es)	None
14.4 Packing group	Not applicable
14.5 Environmental hazards	Not a marine pollutant
14.6 Special precautions for user	None
14.7 Transport in bulk	Not applicable

SECTION 15: Regulatory information**FIFRA — this product is a registered pesticide**

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. **These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.** The hazard information required on the pesticide label is reproduced below.

EPA registration number	101112-1
EPA establishment number	101112-FL-1
Signal word on the label	CAUTION

Precautionary statements	KEEP OUT OF REACH OF CHILDREN. Physical or chemical hazards: do not use this product with other household or industrial chemicals such as toilet bowl cleaners, rust removers or acids; to do so will release hazardous, irritating gas. Prolonged contact with metal may cause pitting or discoloration.
Directions for use	It is a violation of federal law to use this product in a manner inconsistent with its labeling. Always read and follow the label supplied with the product.
Other federal and state regulations	
TSCA	A pesticide registered under FIFRA and distributed for use as a pesticide is excluded from the definition of "chemical substance" in TSCA section 3(2)(B)(ii). TSCA Inventory listing and TSCA 12(b) export notification therefore do not apply to this product as supplied.
SARA Title III, Section 302	This product contains no extremely hazardous substances.
SARA Title III, Section 304	This product contains no chemicals subject to release reporting.
SARA Title III, Section 313	This product contains no chemicals reportable under Section 313.
CERCLA	This product contains no chemicals with a CERCLA reportable quantity.
California Proposition 65	No component is known to the State of California to cause cancer or reproductive harm at a concentration requiring a warning.
State registration	Pesticide registration is also required state by state. Confirm that this product is registered in the state of use before sale or application there.

SECTION 16: Other information

Date of preparation / last revision	7 October 2026
Revision number	08
Supersedes	Revision 07, 15 August 2025

Summary of changes in this revision

Restructured from the single-page Revision 07 sheet to the sixteen sections and section content required by 29 CFR 1910.1200 Appendix D, including the Section 9 property list and Section 11 endpoint list as amended by the 2024 final rule aligning the Hazard Communication Standard with GHS Revision 7. The sheet now matches the other EcoloxTech safety data sheets in structure and wording.

Added, having been absent entirely: the GHS classification and label-element block (Section 2), occupational exposure limits (Section 8), the full physical-property and toxicological-endpoint lists, an emergency contact (Section 1), and — most significantly for this product — **the FIFRA block in Section 15** with the EPA registration and establishment numbers, the signal word and the label's precautionary statements. Revision 07 carried no indication anywhere that the product was EPA-registered at all.

Corrections to Revision 07

Active ingredient	Revision 07 gave hypochlorous acid as " ≤ 0.02 ". The registered formulation is 0.0174% , and an SDS for a registered product should state the label figure.
Sodium chloride EC number	Revision 07 gave 251-598-3. Sodium chloride is 231-598-3 .
TSCA	Revision 07 claimed TSCA Inventory coverage. A FIFRA-registered pesticide is excluded from TSCA; the entry has been reversed.
SARA 304 / CERCLA	Revision 07 read "contains chemicals regulated under Section 304/CERCLA", which declared a reporting obligation and contradicted the Section 313 line in the same paragraph. Almost certainly a dropped "no". Corrected.
Waste citation	Revision 07 cited 40 CFR 261.4(b)(4), which is the Bevill exclusion for fossil-fuel combustion waste and has nothing to do with this product. Replaced with the correct Subpart C/D reasoning and the pH basis under 261.22.
Transport	Revision 07 said "Not Regulated" and then gave a D.O.T. shipping name, a "Package class: 70" and packing group III. A non-regulated material has none of those. Removed.

Technical shipping name	Revision 07 read "A safe and effective dermal cleansing solution" in the shipping-name field. That is marketing copy, an efficacy claim, and wrong for a hard-surface disinfectant. Removed.
Ecological information	Revision 07 said "No ecological effects are to be expected". Free chlorine is toxic to aquatic organisms; replaced with an accurate statement that also explains the rapid degradation to chloride.
Company telephone	Revision 07 gave 1-954-900-6070. Now +1 561-783-8090.

Abbreviations

ACGIH – American Conference of Governmental Industrial Hygienists. ATE – acute toxicity estimate. CAS – Chemical Abstracts Service. CERCLA – Comprehensive Environmental Response, Compensation and Liability Act. EC – European Community. EPA – United States Environmental Protection Agency. FIFRA – Federal Insecticide, Fungicide, and Rodenticide Act. GHS – Globally Harmonized System. HCS – Hazard Communication Standard. HNOC – hazards not otherwise classified. IARC – International Agency for Research on Cancer. IDLH – immediately dangerous to life or health. LD50 – median lethal dose. NIOSH – National Institute for Occupational Safety and Health. NTP – National Toxicology Program. OSHA – Occupational Safety and Health Administration. PEL – permissible exposure limit. ppm – parts per million. REL – recommended exposure limit. SARA – Superfund Amendments and Reauthorization Act. STEL – short-term exposure limit. TLV – threshold limit value. TSCA – Toxic Substances Control Act. TWA – time-weighted average.

Disclaimer

The information in this safety data sheet is based on the present state of our knowledge and applies to the product as supplied. It describes the product with regard to appropriate safety precautions and is not a guarantee of the properties of the product. **This sheet does not replace the EPA-approved label supplied with the product**, which governs how the product may lawfully be used. The user is responsible for determining that the product is suitable for the intended use and for complying with all applicable federal, state and local requirements.