

Hypochlorous Acid Solution — Cosmetic Grade

Revision 01 · 7 October 2026 · Supersedes the previous undated issue

SECTION 1: Identification

Product identifier	Ultra Pure Hypochlorous Acid (HOCl)
Other means of identification	HOCl solution; hypochlorous acid water; electrolysed water. Cosmetic grade, produced by electrolysis from USP-grade sodium chloride and RO/DI water, with no additives.
Recommended use	Cosmetic topical application to external skin — facial mist, skin spray, cleansing of the external eyelid and lash line, and comparable leave-on cosmetic formats
Restrictions on use	External cosmetic use only. Application to the external eyelid, the lash line and the surrounding skin is within this scope, with the eye closed. Not for instillation into the eye or for any other intraocular or ophthalmic use, and not for injection, inhalation therapy or any internal medical use. Not to be mixed into, or diluted with, 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). All other emergencies: +1 561-783-8090 during business hours.

Where this product is supplied in bulk for filling under another brand, the "responsible person" for the finished cosmetic under 21 U.S.C. 364 is the party named on that finished product label, not the supplier named above. See Section 15.

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

OSHA Hazard Communication Standard, 29 CFR 1910.1200: **Not classified as hazardous under GHS at the supplied concentrations.** 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

Pictogram	None required
Signal word	None required
Hazard statements	None required
Precautionary statements	None required under the HCS. See Section 7 for handling and storage advice, which should be reflected on the finished cosmetic label.

2.3 Hazards not otherwise classified (HNOC)

May cause mild eye irritation. The effect is transient and sits below the threshold for classification as an eye irritant, which is why it appears here rather than in 2.1. Apply around the eye with the eye closed and do not spray into an open eye; rinse with water if the product enters the eye (Section 4).

Do not mix with any chemicals. This product is supplied ready to use and is not a base for blending. Contact with acid liberates chlorine gas, and contact with ammonia or amines forms chloramines; both are respiratory irritants. Mixing also destroys the active and the product's stability profile.

The solution may bleach or discolour textiles on prolonged contact. Spilled liquid makes floors slippery.

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**.

Chemical name	Formula	CAS No.	EC No.	Concentration (% w/v)
Hypochlorous acid	HOCl	7790-92-3	232-232-5	0.01 – 0.03
Sodium chloride	NaCl	7647-14-5	231-598-3	< 0.07
Water	H ₂ O	7732-18-5	231-791-2	Balance to 100

INCI declaration

Aqua (Water), Sodium Chloride, Hypochlorous Acid. No preservatives, fragrance, colourants, surfactants or other additives are present.

No component is classified as a health or physical hazard at the concentration present, and no component is present above the cut-off value that would require disclosure as a hazardous ingredient. Full composition is given for transparency rather than because disclosure is triggered. No information is withheld as a trade secret.

Hypochlorous acid is the active and it declines over the shelf life of the product. The range above is the specification as supplied; see Sections 7 and 10 for the conditions that preserve it.

SECTION 4: First-aid measures**4.1 Description of first-aid measures**

Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, then continue rinsing. If discomfort persists, get medical advice.
Skin contact	This is a leave-on cosmetic and no adverse effect is expected. If irritation develops, discontinue use and rinse the skin with water. If irritation persists, get medical advice.
Inhalation	Adverse effects are not expected. Move the person to fresh air. If breathing is difficult or 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.

4.2 Most important symptoms and effects, both acute and delayed

No symptoms are expected under the recommended conditions of use. A faint chlorine odour may be noticeable. Mild, temporary eye discomfort is possible if the product is sprayed into an open eye.

If chlorine gas has been liberated by mixing with an 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. Pressurised spray and aerosol packaging may burst in a fire.

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

Avoid UV and heat. Keep the container sealed. Do not mix with chemicals.

Maintain general hygiene practice. Do not transfer the product to an unlabelled container. Do not decant into a container that has held another product. Avoid contact with dark fabrics, which may be discoloured.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place in the original closed container, out of direct sunlight and away from UV light. Keep the container tightly closed when not in use. Opaque or UV-blocking packaging is recommended for the finished product. Do not store with acids, ammonia, hydrogen peroxide or reducing agents. Observe the shelf life stated on the product label; available chlorine declines over time, with heat and with light exposure.

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

No personal protective equipment is required for consumer use. Safety glasses are recommended when handling the product in bulk.

Engineering controls	None required for consumer use. In a filling or blending operation, general room ventilation is adequate; provide local exhaust where the product is sprayed or handled in a confined space.
Eye and face protection	None required for consumer use. Safety glasses for bulk handling, decanting and filling.
Skin protection	None required — the product is formulated for application to skin. Gloves may be worn in a filling operation as a product-hygiene measure rather than a safety one.
Respiratory protection	None 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 and colourless
Odour	Faint chlorine odour
Odour threshold	Not determined for the mixture
pH	4.5 – 7.0
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	Approximately 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 recommended 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.
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, ammonia and amines, hydrogen peroxide, reducing agents, heavy metals and ethers. Do not combine with any other cosmetic ingredient or formulation without stability testing.
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**

Non-sensitising and non-carcinogenic. May cause temporary eye discomfort.

Human repeat insult patch test

The product covered by this sheet has been subjected to a human repeat insult patch test (HRIPT) as a finished retail product. The trial was conducted at an ISO/IEC 17025:2017 accredited clinical testing laboratory in accordance with the Declaration of Helsinki, ICH Guideline E6 for Good Clinical Practice and 21 CFR Parts 50 and 56, and completed in April 2026.

Subjects	56 enrolled, 53 completed. Male and female, aged 19 to 79, Fitzpatrick skin types I to VI.
Method	Approximately 0.2 mL applied to a one-square-inch absorbent pad and held against the upper back as a semi-occlusive patch — a more aggressive exposure than the product's intended use.
Induction	Nine applications, three per week, with the site scored on each removal.
Challenge	A patch applied to a virgin site at least ten days after the final induction patch, scored at one and three days.
Result	Zero on the erythema scale at every reading, for every subject, at every site, with no dermal sequelae recorded. The laboratory concluded that under the conditions of the trial the material indicated no potential for dermal irritation or allergic contact sensitisation.

One serious adverse event was recorded during the trial: a subject was admitted to hospital for asthma and withdrawn. The principal investigator judged it severe but unlikely to be related to the test material. It is reported here for completeness.

The full report is held on file as safety substantiation and is available to customers on request. It is not reproduced here: it was commissioned by, and addressed to, a brand customer, and its terms restrict onward use of the report and of the laboratory's name.

Likely routes of exposure	Dermal contact is the intended route of exposure, including the skin of the external eyelid and lash line. Contact with the eye itself and inhalation of mist are incidental to normal use. Ingestion is possible but unlikely.
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Endpoint	Classification
Acute toxicity — oral	Not classified
Acute toxicity — dermal	Not classified
Acute toxicity — inhalation	Not classified
Skin corrosion / irritation	Not classified. Supported by human repeat insult patch testing — see above.
Serious eye damage / eye irritation	Not classified. Mild, transient discomfort possible — see Section 2.3.
Respiratory sensitisation	Not classified
Skin sensitisation	Not classified. Supported by human repeat insult patch testing — see above.
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

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.

Small quantities may be flushed to sanitary sewer or disposed of with normal refuse where local regulations permit. Confirm against state and local rules, which may be more restrictive than the federal position above.

Contaminated packaging

Empty containers should be rinsed and taken to an approved waste handling site for recycling or disposal.

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	Protect from heat and direct sunlight in transit, for product quality rather than for safety.
14.7 Transport in bulk	Not applicable

SECTION 15: Regulatory information

FD&C Act — cosmetic status	This product is a cosmetic as defined in section 201(i) of the Federal Food, Drug, and Cosmetic Act. It is not a drug and not a pesticide.
MoCRA	Subject to the Modernization of Cosmetics Regulation Act of 2022, including facility registration and product listing (21 U.S.C. 364a and 364b), adverse event reporting (364c), safety substantiation records (364d) and good manufacturing practice (364e). For a finished product filled under another brand, these obligations fall on the responsible person named on that label.
Cosmetic labelling	Finished product labelling must meet 21 CFR 701, including the ingredient declaration in descending order of predominance using the INCI names in Section 3, and the domestic address or telephone number for adverse event reports required by MoCRA.
TSCA	A substance manufactured, processed or distributed for use in a cosmetic is excluded from the definition of "chemical substance" by TSCA section 3(2)(B)(vi), so TSCA does not apply to this product in its cosmetic use. The individual components are nonetheless listed on the TSCA Inventory.
FIFRA and claims	This product is not an EPA-registered pesticide and carries no EPA registration number. No antimicrobial, disinfectant, sanitising, anti-acne, wound-care or other therapeutic claim may be made for it: a claim of that kind would make the product an unregistered pesticide under FIFRA or an unapproved new drug under the FD&C Act. Where a registered antimicrobial is required, see HOCl-AS200, EPA Reg. No. 101112-1, used according to its accepted label.
SARA Title III, Sections 302, 304 and 313	This product contains no extremely hazardous substances, no chemicals subject to release reporting and 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.

SECTION 16: Other information

Date of preparation / last revision	7 October 2026
Revision number	01
Supersedes	the previous undated issue

Summary of changes in this revision

Restructured from the previous short-form 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. Added the GHS classification and label-element block (Section 2), occupational exposure limits (Section 8), the full physical-property and toxicological-endpoint lists, the INCI declaration, and an emergency contact. Section 15 rewritten: the previous sheet asserted TSCA compliance, which does not apply to a cosmetic, and gave no MoCRA obligations. Hypochlorous acid concentration restated as 0.01 – 0.03%; sodium chloride as less than 0.07%. Section 7 and Section 2 now say do not mix with any chemicals, rather than naming acids alone. Section 11 now carries the human repeat insult patch test, so the skin irritation and sensitisation entries rest on human data rather than on inference from composition. Company address and telephone corrected.

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. FD&C Act – Federal Food, Drug, and Cosmetic Act. 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. INCI – International Nomenclature of Cosmetic Ingredients. LD50 – median lethal dose. MoCRA – Modernization of Cosmetics Regulation Act of 2022. NIOSH – National Institute for Occupational Safety and Health. NTP – National Toxicology Program. OSHA – Occupational Safety and Health Administration. PEL – permissible exposure limit. REL – recommended exposure limit. RO/DI – reverse osmosis / deionised. SARA – Superfund Amendments and Reauthorization Act. STEL – short-term exposure limit. TLV – threshold limit value. TSCA – Toxic Substances Control Act. TWA – time-weighted average. USP – United States Pharmacopeia.

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. 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.