HYPRISTINE

MATERIAL SAFETY DATA SHEET

1. Identification

Product identifier

Product name Hypristine Pure Hypochlorous Acid Natural Multi-Purpose Cleaner

Other means of identification

Product number -

Chemical name Hypochlorous Acid (HOCl)

Recommended use of the chemical and restrictions on use

Identified uses Multi-purpose cleaner that can be applied in many areas, such as: toilets, auditoriums and lecture theatres, F&B establishments, medical facilities and equipment, scientific laboratories, high-touch surface contact areas, public and outdoor spaces, offices, commercial and industrial premises.

Uses advised uses -

Details of the supplier of the safety data sheet

Company Hypristine, LLC

Address 411 E 203rd Street, Belton, MO 64012

Telephone 866-761-6355

Fax -

Emergency phone number

24H Emergency phone number 866 761 6355

Service number Monday to Friday, 9 am-5 pm (Central Daylight Time)

2. Hazard Identification

Classification of the substance or mixture

Appearance Clear liquid

Physical state Liquid

Odor Faint chlorine odor

Not classified under the OSHA Hazard Communication Standard (29 CFR 1910.1200)

This Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

GHS label elements, including precautionary statements

Pictogram(s)	No symbol
Signal word	No signal word
Hazard statement(s)	None
Precautionary statement(s)	None
Prevention	None
Response	None
Storage	None
Disposal	None

Other hazards which do not result in classification

None

3. Composition/Information on Ingredients

Substances

Chemical Name	Common Names	CAS Number	Concentration
Hypochlorous Acid	HOCl	7790-92-3	<0.02%
Reverse Osmosis Water	H_20	7732-18-5	<99.98%

4. First-Aid Measures

Description of necessary first-aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Inhalation	If symptoms develop, immediately move the individual away from exposure and into the fresh air. Seek medical attention. Keep the person warm and quiet. If the person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.
Skin contact	First aid is not typically required. However, it is recommended that exposed area be cleaned by washing with soap water.
Eye contact	If symptoms develop, move the individual away from exposure and into The fresh air. Flush eyes with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

Most important symptoms/effects, acute and delayed
Under normal use conditions, the likelihood of any adverse health effects is low. Inhalation of product vapors or fumes is the most common route of exposure in occupational settings.

Indication of immediate medical attention and special treatment needed, if necessary
No data available

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Specific hazards arising from the chemical
No data is available.

Special protective actions for fire-fighters
Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection, see Section 8.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let the product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up
Some localities allow such concentrations to be sent to open sewers. However, local environmental regulatory requirements should be followed. Spills can be washed to the sewer with plenty of water or neutralized using sodium sulfite or sodium thiosulfate if desired.

7. Handling And Storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday.

Conditions for safe storage, including any incompatibilities

Storage conditions Store in a cool place. Keep the container tightly closed in a dry and well-ventilated place.

8. Exposure Controls/Personal Protection

Control parameters

Exposure limit values No data is available.

Biological limit values No data is available.

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday.

Individual protection measures, such as personal protective equipment (PPE)

Eye/Face protection Not required.

Skin/Body protection Not required.

Respiratory protection Wear a dust mask when handling large quantities.

Thermal hazards No data available.

9. Physical And Chemical Properties

Physical and chemical properties

Physical state	Liquid
Color	Clear
Odor	Faint chlorine odor
Melting point/freezing point	0° C / 32° F
Boiling point or initial boiling point and boiling range	100° C / 212° F
Flammability	Non-flammable
Lower and upper explosion limit/flammability limit	No data available
Flash point	Non-flammable
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	3.5 – 6.5
Kinematic viscosity	No data available
Solubility	100% soluble No
Partition coefficient n-octanol/water (log value)	data available No
Vapor pressure	data available
Density and/or relative density	8.34 lb/gal
Relative vapor density	No data available
Particle characteristics	No data available

10. Stability And Reactivity

Reactivity
Reactive to acid products and hydrogen peroxide.

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
No data available.

Conditions to avoid
Avoid accidental contact of the product with acids and hydrogen peroxide.

Incompatible materials
No data available.

Hazardous decomposition products
No data available.

11. Toxicological Information

Acute toxicity	No data available
Skin corrosion/irritation	Unlikely to cause skin irritation or injury
Serious eye damage/irritation	Unlikely to cause eye irritation or injury
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available

12. Ecological information

Toxicity
No data available

Persistence and degradability
No data available

Bioaccumulative potential
No data available

Mobility in soil
No data available

Other adverse effects
No data available

13. Disposal Considerations

Disposal methods

Waste Treatment Methods Local environmental regulatory requirements should be followed. If desired, spills can be washed to the sewer with plenty of water or neutralized using sodium sulfite or sodium thiosulfate.

Contaminated packaging Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials. Disposal should be in accordance with applicable regional, national, and local laws and regulations.

14. Transport Information

UN Number
ADR/RID: no data available IMDG: Not regulated IATA: Not restricted

UN Proper Shipping Name
ADR/RID: No data available IMDG: Not regulated IATA: Not restricted

Transport hazard class(es)
ADR/RID: No data available IMDG: Not regulated IATA: Not restricted

Packing group, if applicable
ADR/RID: No data available IMDG: Not regulated IATA: Not restricted

Environmental hazards
ADR/RID: No IMDG: No IATA: No

Special precautions for user
No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No data available

15. Regulatory Information

Safety, health, and environmental regulations specific to the product in question

Chemical Name	Common Names	CAS Number	EC Number
Hypochlorous Acid	HOCl	7790-92-3	None
European Inventory of Existing Commercial Chemical Substances (EINECS): Not available			Listed
United States Toxic Substances Control Act (TSCA) Inventory			Listed

16. Other Information

Information on revision

Issuing date April 2023
Revision date None

Disclaimer

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 material or in any process unless specified in the text.

Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short-term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

References

• IPCS - The International Chemical Safety Cards (ICSC)
Website: http://www.ilo.org/dyn/icsc/showcard.home

• HSDB - Hazardous Substances Data Bank
Website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm

• IARC - International Agency for Research on Cancer
Website: http://www.iarc.fr/

• eChemPortal - The Global Portal to Information on Chemical Substances by OECD
Website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en

• CAMEO Chemicals
Website: http://cameochemicals.noaa.gov/search/simple

• ChemIDplus
Website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp

• ERG - Emergency Response Guidebook by U.S. Department of Transportation
Website: http://www.phmsa.dot.gov/hazmat/library/erg

• Germany GESTIS-database on hazardous substance
Website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp

• ECHA - European Chemicals Agency
Website: https://echa.europa.eu/