SAFETY DATA SHEET

Section 1: Identification

Product Name: Annihilyte® - EPA# 92449-1

Chemical Name/Synonyms: Electro-chemically activated solution of sodium chloride (0.9% or less) resulting in Hypochlorous (HOCl) and Water (H_20). The Product contains 500± ppm Free Available Chlorine (FAC).

Manufacturer: Annihilare Medical Systems, Inc. (Annihilare®)
Address: 311 Motz Ave, Suite E, Lincolnton, NC 28092
Phone No: 855.545.5677
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Section 2: Hazard(s) Identification

See https://www.sigmaaldrich.com/safety-center/globally-harmonized.html for a list of hazard classifications, signal words, hazard statements, pictograms, precautionary statements, and a description of hazards.

Hazard Classification: HMIS Hazard Rating: Health = 0 Flammability = 0 Physical = 0 Reactivity = 0

Signal Word(s): None

Hazard Statements: This product is not classified as hazardous for environment disinfectant use.

Pictograms: None

Precautionary Statements: This product contains no hazardous components

Description of other hazards: None

Section 3: Composition/ Information on Ingredients

Chemical Name	Synonym	CAS#	Conc.
Water	H_20	None	≥99%
Hypochlorous Acid	HOCl	7790-92-3	≤0.05%

Section 4: First-Aid Measures

Under normal use conditions the likelihood of any adverse health effect is low

After skin contact: If any irritation occurs, wash affected area with water.
After eye contact: If irritation occurs, flush eyes with water.
After inhalation: If breathing problems develop, move away from Product and into fresh air.
After swallowing: Drink an 8 oz. glass full of water.

Exposure Limits: No exposure limits established for the Product by ACGIH or OSHA.

Medical conditions generally recognized as being aggravated by exposure to Product: NA

Primary route(s) of exposure: Inhalation of Product vapors or fumes is the most common route of exposure in occupational settings.

Section 5: Fire-Fighting Measures

Not flammable or explosive.

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions

Special protective equipment for firefighters: Use fire protective equipment suitable to surrounding conditions

Section 6: Accidental Release Measures

Personal precautions: Use personal protective equipment as required. Refer to sections 4 and 8

Measures for environmental protection: Refer to protective measures listed in sections 7 and 8

Measures for cleaning/collecting: Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers

Section 7: Handling and Storage

Handling and Storage: No special requirements are necessary. Store according to package directions

Section 8: Exposure Controls/Personal Protection

General protective and hygienic measures: No personal protective equipment is required under normal conditions.

Breathing equipment: No personal protective equipment is required under normal conditions.

Protection of hands: No personal protective equipment is required under normal conditions.

Eye protection: No personal protective equipment is required under normal conditions.

Section 9: Physical and Chemical Properties

Form: Liquid
Odor: Slight Chlorine
Odor threshold: N/A
pH: Neutral - 6-7
Melting point/melting range: N/A
Boiling point/boiling range: 100° C
Flash point: N/A
Evaporation rate: Comparable to Water
Flammability: Non-Flammable
Upper/lower flammability or explosive limits: N/A
Auto ignition temperature: N/A
Danger of explosion: None
Vapor pressure: N/A
Vapor density: ND
Relative density: 8.34 lbs/gal
Solubility in/Miscibility with water: Complete

Section 10: Stability and Reactivity

Chemical stability: Loses its level of available chlorine at high temperatures & when exposed to direct sunlight.

Conditions to avoid: Do not mix or combine with other household or industrial chemicals such as toilet bowl cleaners, rust removers, acids, hydrogen peroxide or products containing ammonia.

Incompatible materials: Unprotected metal surfaces

Hazardous decomposition products: None

Section 11: Toxicological Information

Developmental/Reproductive Toxicity: No information available

Carcinogenicity: Neither the Product nor any of its constituents are listed in the latest NTP Annual Report on Carcinogens or has been found to be a potential carcinogen in the latest IARC Monograph or by OSHA.

Cytogenecity: Product does not possess cytogenetic activity based on the test results on chromosome induction operations in the bone marrow cells of mice.

Toxicity and exposure limits to Chlorine:

- TLV/TWA: 1 ppm (3 mg/cubic meter)
- TLV/STEL: 3 ppm (9 mg/cubic meter)
- Acute Oral LD50 in rats g/kg 0.73
- Dermal LD50 in rats g/kg 1.26 – 2.0

Section 12: Ecological Information

Product does not present adverse effects to the environment

Section 13: Disposal Considerations

Product and packaging can be disposed of as local laws permit for a non-hazardous material.

Section 14: Transport Information

OSHA Label: None Required.

DOT Proper Shipping Name, Hazard Class, UN/NA Number Packing Group, RQ (If needed): Not DOT Regulated. No DOT label required.

Section 15: Regulatory Information

TSCA No: All chemicals in this Product are listed on the EPA TSCA Inventory list.

CERCLA/SARA: This Product has been reviewed according to the EPA "Hazard Categories" promulgated under Section 311 and 312 of SARA. It does not fall in any listed category and poses no risk of immediate (acute) health hazard, delayed (chronic) health hazard, fire hazard, or sudden release of pressure and is not reactive (see 29 CFR § 1910.1200).

OSHA Hazard Communication Standard: This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Clean Air Act: N/A

Section 16: Other Information

This Safety Data Sheet (SDS) was prepared in accordance with the provisions and requirements of 29 CFR § 1910.1200(g) and discloses the physical and health hazards of all hazardous chemicals contained in the Product described in this SDS, but unless otherwise noted, does NOT describe or disclose ALL the chemicals/components in the Product, some of which may be Trade Secrets.

The information included in this SDS is based on data developed or compiled by Annihilare Medical Systems, Inc. from open literature, independent laboratory studies, and other available scientific evidence and is believed to be accurate and complete, but Annihilare makes no warranty with respect thereto. **Neither does Annihilare make any representation or warranty, express or implied, with respect to the Product or its suitability for any purpose or use, hereby disclaiming all such warranties, including the implied warranties of merchantability and fitness for a particular purpose and the implied warranty that the Product is free of claims of third persons by way of infringement or the like.** Anyone intending to use the Product described in this SDS should satisfy himself that the Product (1) is suitable for their purposes and intended uses, and (2) meets any safety and health standards applicable thereto. It is the obligation of each user of the Product described in this SDS to determine and comply with the requirements of all statutes – local, state and federal – applicable to its use, storage and disposal.

Symbols

ACGIH = American Conference of Governmental Industrial Hygienists
ASTMI = American Society for Testing and Materials International
CAS # = Chemical Abstracts Service Register number
CERCLA = Comprehensive Environmental Response Compensation and Liability Act
CL = Ceiling Limit
IARC = International Agency for Research on Cancer
NIOSH = National Institute for Occupational Safety and Health Hygienists
NA = No Applicable Information
ND = Not Determined
NFPA = National Fire Protection Association
NTP = National Toxicology Program
OSHA = Occupational Safety and Health Administration
OSHA, TWA = Occupational Safety and Health Administration, Time Weighted Average
PMCC = Pensky - Martens Closed Cup Flash Point Determination
SARA = Superfund Amendment and Reauthorization Act of 1986
STEL = Short Term Exposure Limit
TCC = Tagliabue Closed Cup flash point determination
TLV = Threshold Limit Value
TWA = Time Weighted Average, 8 hours

Additional Information/Comments

Annihilyte was designed to be a less hazardous product than others currently in use.

SDS date of preparation/update: November 2024
Prepared By: Annihilare®

End of Safety Data Sheet