

Safety Data Sheet

Neutra-Lyze

SECTION 1. IDENTIFICATION

Product identifier	Neutra-Lyze Electro-chemically activated solutions of sodium chloride (0.9% or less)
Other means of identification	Health Canada DIN # 02449536
Chemical family	Diluted mixture of oxychlorine compounds
CAS #	None (mixture)
Recommended use	Antimicrobial agent / Disinfectant
Restrictions on use	Not available
Manufacturer	Envirowise Solutions Inc. #441 – 5525 West Boulevard, Vancouver, BC. V6M 3W6 Tel: 1-888-709-3888
Emergency Telephone Number	Not available

SECTION 2. HAZARD IDENTIFICATION

Hazard classification	Not available
Dangerous components of the product toxicity:	
Identification	None
Danger symbol	None
Toxicity	None determined
Label elements	
Signal word	None
Hazard statement(s)	None
Precautionary statement(s)	Under normal use conditions the likelihood of any adverse health effect is low
Hazards not otherwise classified	Not available
Percentage of ingredients with unknown toxicity	Not available

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name of Ingredient	Concentration
Water	99.500%
Sodium Chloride	0.450%
Other	0.004%
Oxidizer as hypochlorous acid/sodium hypochlorite	0.046%

SECTION 4. FIRST-AID MEASURES

Inhalation	If breathing problems develop, move into fresh air. If dizziness or nausea occurs seek immediate medical attention.
Skin Contact	If irritation appears, wash area with water.
Eye Contact	If irritated, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
Ingestion	Drink water to flush through and dilute.
Most important symptoms and effects (acute or delayed)	Not available
Immediate medical attention and special treatment, if necessary	Not available

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SECTION 5. FIRE-FIGHTING MEASURES

Non-flammable or explosive; Neutra-Lyze consists of 99.50% water.

Suitable and unsuitable extinguishing Media	Not available
Specific hazards arising from the product	In a fire, cool containers to prevent release of free chlorine.
Hazardous combustion products	Not available
Special protective equipment and precautions for fire-fighters	In a fire, cool containers to prevent release of free chlorine. Not available

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures	Not available
Methods for containment and cleaning up	Not available
Spills, leaks, effluent handling procedures	Neutra-Lyze is <0.9% sodium chloride (salt) solution and less than 0.05% available chlorine. Some localities allow this to be sent to open storm sewers, however local environmental regulatory requirements should be followed. If desired, spills can be washed to sewer with plenty of water or neutralized by sodium sulfite or sodium thiosulfate.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling	Not available
Conditions for safe storage	Not available

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

No personal protective equipment is required under normal conditions. The following suggestions should be considered in case of accidental chlorine release due to acidification.

Ventilation	Open air or good room ventilation is normally adequate for the safe use of the product. Avoid breathing any vapours or fumes resulting from acidification ventilation.
Respiratory protection	In accordance with OSHA regulations (29 CFR 1910.134 and 29 CFR 1910.1000) fogging or spraying applications may require worker respiratory protection, such as (1) NIOSH/MSHA approved air-purifying respirators, or (2) NIOSH/MSHA approved canister/cartridge facial respirators approved for chlorine/acid vapors.
Eye protection	Although Neutra-Lyze is a decontaminant designed not to irritate eyes or skin, Good Manufacturing/Laboratory Practice recommends use of chemical safety goggles for all applications involving chemical handling.
Protective clothing	Although Neutra-Lyze is a decontaminant designed not to irritate eyes. or skin; Good Manufacturing/Laboratory Practice recommends use of chemical safety goggles for all applications involving chemical handling.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Appearance/Color/Odour	Colorless with chlorine-like odour
Boiling point	100°C
Melting point / Freezing point range	Comparable to water
Specific gravity	1.02 – 1.06 g/ml
Evaporation rate	Comparable to water
Solubility in water	Complete
pH	6.3 – 6.7
Viscosity	21°C average: 0.9846mm ² /s (cSt)
Viscosity	41°C average: 0.6346mm ² /s (cSt)
Flash point	Not available
Odour threshold	Not available
Flammability (solid, gas)	Not available
Lower flammable/explosive limit	Not available
Upper flammable/explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Partition coefficient - n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	Not available
Chemical stability	Loses its level of available chlorine at high temperature and under direct sunlight
Possibility of hazardous reactions	Not available
Conditions to avoid	Avoid accidental or uncontrolled contact with acids and hydrogen peroxide
Incompatible materials	Acids and hydrogen peroxide
Hazardous decomposition products	Not available

SECTION 11. TOXICOLOGICAL INFORMATION

Likely routes of exposure	Inhalation, ingestion, skin and eye contact
Symptoms related to the physical, chemical and toxicological characteristics	Not available
Delayed and immediate effects, and chronic effects from short-term and long-term exposure	Under normal use conditions the likelihood of any adverse health effect is low
Acute Toxicity Estimates	
LD50 of product	Undetermined
LC50 of product	Undetermined

SECTION 12. ECOLOGICAL INFORMATION

Not available

SECTION 13. DISPOSAL CONSIDERATIONS

Not available

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SECTION 14. TRANSPORT INFORMATION

Not available

SECTION 15. REGULATORY INFORMATION

Drug Identification Number (DIN): 02449536

SECTION 16. OTHER INFORMATION

SDS prepared by	Envirowise Solutions Inc.
Date of preparation	May 18, 2016
	Neutra-Lyze was developed to be a less hazardous antimicrobial agent than many of those agents now in use.

Date of latest revision	December 18, 2020
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Disclaimer	<p>The information contained in this SDS is offered for your consideration and guidance when exposed to this product. The data contained herein is accurate to the best of the knowledge of Envirowise Solutions and is intended to describe the product for the purposes of health and safety requirements only. It should not, therefore, in itself be construed as a guarantee of any specific quality relating to the product. Envirowise Solutions expressly disclaims all expressed or implied warranties and assumes no responsibilities for the outcome arising from the use of its products in any manner except to the extent specifically agreed to in writing.</p>
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