

Shield All Natural Cleanser

North Carolina Sheriffs' Association

“Technology Procurement Program”

Bid Number 22-01-0303

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Submitted by:



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How it Works

EPA APPROVED

Shield Disinfectant/Sanitizer is listed on the EPA List N: Disinfectant for Use Against SARS-CoV-2, the virus that causes the novel COVID-19 disease (EPA Registration Number 92108-1-96847).

THE MAGIC

The 'magic' behind the entire Shield Cleansers product line is not really 'magic' at all, but rather nature at its purest combined with proven science. Shield's main ingredient is hypochlorous acid, a substance found naturally in the human body, and replicated by scientists by running an electrical charge through a combination of salt and water. This electro-chemical reaction reproduced the hypochlorous acid within a solution now known as anolyte water, and paved the way for a new generation of health, healing and cleanliness.

THE DISCOVERY

Now, to be fair, Shield was not the first to discover what nature already possesses. Anolyte water was first discovered by a French surgeon, Nobel Laureate Alexis Carrel, in cooperation with a British biochemist, Drysdale Dakin. Their time period was World War I, and their mission was to aid the soldiers wounded in battle. They used HOCl stabilized with boric acid, to flush the interior surfaces of those wounded. The solution proved effective in not only preventing sepsis, but also in accelerating the healing process, and saving countless lives.

THE ADVANTAGE

Today, hypochlorous acid in a stabilized form is a weapon to use against the countless things that threaten the immune system of the human body, or cleanliness of the environment. Homes, works places, kids, pets, farms and food are all vulnerable to germs, bacteria, infection or disease. Hypochlorous acid is produced by the human body to fight the war on health from within, and now you have hypochlorous acid in a bottle to fight from the outside.

What is the advantage of hypochlorous acid over traditional cleaners? Most of the pathogens, particularly water born, when used over time, develop resistance to cleansers such as sodium hypochlorite (bleach). In comparison, anolyte application, as a water disinfectant, used on a daily basis over the course of ten years, demonstrated that no resistance was developed over time to pathogenic microorganisms. Hypochlorous acid is also free from harmful fumes.

THE SCIENCE

Hypochlorous acid, in the body works to break down the cells that are creating the infection by destroying the cell membrane and its DNA, thus halting the replication or growth process.

THE PRODUCT

All of Shield's products contain hypochlorous acid and are formulated with varying concentrations to create a full line of products effective in several areas covering wound and skin care, to household cleaning or disinfecting, vet care and first aid. Shield Disinfectant, registered by the EPA, and Shield First Aid Solution, cleared by the FDA are the two flagship products of the Shield line, and as leaders of the Shield family, can give you the assurance of our product's validity, effectiveness and guarantee for family, pets, and homes.

Shield All-Natural Cleanser

Earth Friendly, Truly Green Cleanser

Unlike traditional cleansers containing harsh chemicals, Shield All-Natural Cleanser contains hypochlorous acid, a naturally occurring molecule of the human body, making it a powerful deodorizer and cleaner while still safe to use around people and pets.

Features:

- Replacement for the everyday chemical cleansers
- Perfect for work surfaces, kitchen counter-tops, and bathrooms
- Safe for use in the nursery or changing table *
- Safe for hands, and ideal for traveling in airports, hotels, public bathrooms, store carts, and rest stops *
- Deodorizes rooms, cars, lockers and trash cans
- Can be used in humidifiers or air cleaning systems
- Non-toxic to humans and pets
- Contains No VOCs, petro-chemicals, sulfates or bleach
- Environmentally safe and responsible
- 12-month shelf life

*Shield All-Natural Cleanser is not to be used as an antimicrobial disinfectant or sanitizer to kill or mitigate bacteria, viruses or pests on any surface - Please use Shield Disinfectant/Sanitizer.



Safety Data Sheet



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Version 1.0

1. IDENTIFICATION

Product Identifier

Product Name Shield™ Disinfectant/Sanitizer

Other means of identification

SDS # Shield-Dis/San-001

Product Code

UPC Code 686754964074 Shield™ Disinfectant/Sanitizer 3.78 L
686754964067 Shield™ Disinfectant/Sanitizer 946 ml

Synonyms Disinfectant, Sanitizer

Recommended use of the chemical and restrictions on use

Recommended Use For Disinfecting Hard Surfaces and Sanitizing food prep areas

Details of the supplier of the safety data sheet

Supplier Address

Shield Products, LLC
15612 College Blvd.
Lenexa, KS 66219 USA
www.shieldcleansers.com

Emergency Telephone Number

Company Phone Number 1-800-440-4947
Emergency Telephone (24 hr) 1-800-222-1222

2. HAZARDS IDENTIFICATION

Appearance Clear Liquid **Physical State** Liquid **Odor** Faint chlorine ozone

Classification

This product does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, 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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product contains no substances which at its given concentration, are considered hazardous to health. However, additional component information is available in subsequent sections of this SDS.

Synonyms Disinfectant, Sanitizer

4. FIRST AID MEASURES

First Aid Measures

- Eye Contact** If irritation occurs, flush eyes with water.
- Skin Contact** If irritation occurs, wash affected area with water.
- Inhalation** If breathing problems develop, move away from product and into fresh air.
- Ingestion** Drink an 8 oz. glass of water.

Most important symptoms and effects

Symptoms Under normal use conditions the likelihood of any adverse health effect is low. Inhalation of product vapors or fumes is the most common route of exposure in occupational settings.

Indication of any immediate medical attention and special treatment needed

Notes to Physician None Applicable but treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Product is not flammable or explosive- not applicable.

Unsuitable Extinguishing Media Product is not flammable or explosive- not applicable.

Specific Hazards Arising from the Chemical

Not Determined

Protective equipment and precautions for firefighters

None needed as product is not flammable or explosive.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions No personal protective equipment is required under normal conditions.

Methods and material for containment and cleaning up

Methods for Containment and Methods for Clean-up Product is $\leq 0.9\%$ sodium chloride (salt) solution and $\leq 0.05\%$ available chlorine. Some localities allow such concentrations 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 using sodium sulfite or sodium thiosulfate.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well ventilated place.

Incompatible Materials Acids and Hydrogen Peroxide

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriated engineering controls

Engineering Controls Under normal conditions, none is required. Provide general and/or local exhaust ventilation to maintain a comfortable environment during showers, and at eyewash stations.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Under normal conditions, not required.

Skin and Body Protection None required under normal use.

Respiratory Protection Not required under normal use conditions.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid		
Appearance	Clear Liquid	Odor	Faint chlorine ozone odor
Color	Clear	Odor Threshold	Not determined
Property		Values	Remarks – Method
pH		5.0 - 6.8	
Melting Point/Freezing Point		0° C / 32° F	
Boiling Point/Boiling Range		100° C / 212° F	
Flash Point		Non-flammable	
Evaporation Rate		0.3	Comparable to water
Flammability (Solid, Gas)		Liquid-Not applicable	
Upper Flammability Limits		Not Determined	
Lower Flammability Limit		Not Determined	
Vapor Pressure		Not Determined	
Vapor Density		Not Available	
Specific Gravity	1.00	1.06 g/ml or 8.34 lbs/gal	
Water Solubility		100% soluble	

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<u>Property</u>	<u>Values</u>	<u>Remarks – Method</u>
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not considered to be an explosive hazard	
Oxidizing Properties	Not determined	

10. STABILITY AND REACTIVITY

<u>Reactivity</u>	Reactive to acid products and hydrogen peroxide.
<u>Chemical Stability</u>	Stable under recommended storage conditions.
<u>Possibility of Hazardous Reactions</u>	
<u>Hazardous Polymerization</u>	Will not undergo hazardous polymerization.
<u>Conditions to Avoid</u>	Avoid accidental contact of product with acids and hydrogen peroxide.
<u>Incompatible Materials</u>	Acids and Hydrogen Peroxide.
<u>Hazardous Decomposition Products</u>	None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

<u>Eye Contact</u>	Avoid contact with eyes.
<u>Skin Contact</u>	Not expected to be a skin irritant during labeled use.
<u>Inhalation</u>	If breathing problems develop, move away from product and into fresh air.
<u>Ingestion</u>	Do not ingest.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5 ≥ 99% Hypochlorous Acid 7790-92-3 ≤ 0.05%	1.26- 2.0 g/kg (Rat) Note: Chlorine levels	1.26- 2.0 g/kg (Rat) Note: Chlorine levels	Not Applicable

Information on physical, chemical and toxicological effects

<u>Symptoms</u>	Please see Section 4 of this SDS for symptoms.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

<u>Carcinogenicity</u>	Based on information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
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<u>Numerical measures of toxicity</u>	Not determined
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12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Water 7732-18-5 ≥ 99%	None	None	None	None
Hypochlorous Acid 7790-92-3 ≤ 0.05%				

Persistence/Degradability None

Bioaccumulation Not determined

Mobility Not determined

Other Adverse Effects Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Product is ≤0.9% sodium chloride (salt) solution and ≤0.05% available chlorine. Some localities allow such concentrations 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 using sodium sulfite or sodium thiosulfate.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulation.

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories All ingredients are listed or exempt from listing on Chemical Substance Inventory.

Legend:

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- IECSC - China Inventory of Existing Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances
- PICCS - Philippines Inventory of Chemical and Chemical Substances
- AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

This material as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of Code of Federal Regulations, Part 372.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations.

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards 0	Flammability 0	Instability 0	Special Hazards Not Determined
<u>HMIS</u>	Health Hazards Not Determined	Flammability Not Determined	Physical Hazards Not Determined	Special Hazards Not Determined

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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.

End of Safety Data Sheet