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Safety Data Sheet

BLUEWAVE

RUST & WATER STAIN REMOVER

Ready-to-Use & Eco Friendly

V1.1 January 3, 2022

Section 1: Identifications

Product Name:	BlueWave Rust & Water Stain Remover
Synonyms:	Not available.
Product Use:	Hull Cleaner.
Restrictions on Use:	Not available.
Manufacturer/Supplier:	BLUEWAVE PRODUCTS & SERVICES OF FLORIDA, LLC 5007 Denver Street Tampa, FL 33619 USA
Phone Number:	813-556-7866 (Customer Service)
Emergency Phone:	PERS (US & Canada) 1-800-633-8253 (24 hr.) PERS (International) 1-800-424-9300 (24 hr.)
Date of Preparation of SDS:	January 3, 2022

Section 2: Hazard(s) Identification

GHS INFORMATION

Classification:

Flammable Liquids, Category 3
Eye Damage, Category 1

LABEL ELEMENTS

Hazard Pictogram(s):



Signal Word:

Danger

Hazard Statements:

Flammable liquid and vapor.
Causes serious eye damage.

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Precautionary Statements

- Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment.
Use explosion-proof electrical, ventilating, and lighting equipment. Use non-sparking tools.
Take action to prevent static discharges.
Wear protective gloves, protective clothing, and eye and face protection.
- Response:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor.
In case of fire: Use dry chemical, CO₂, water spray or alcohol-resistant foam to extinguish.
- Storage:** Store in a well-ventilated place. Keep cool.
- Disposal:** Dispose of contents and container in accordance with applicable regional, national and local laws and regulations.

Hazards Not Otherwise Classified: Not applicable.

Ingredients with Unknown Toxicity: 15% of this product mixture consists of ingredient(s) of unknown acute toxicity.

This material is considered hazardous by the OSHA Hazard Communication Standard, (29 CFR 1910.1200).

Section 3: Composition/Information on Ingredients

Hazardous Ingredient(s)	Common name/Synonyms	CAS No.	% wt./wt.
Oxalic acid dihydrate	Not available.	6153-56-6	5 - 10

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Ethanol	Not available.	64-17-5	3 - 7
2-Propyn-1-ol compound with methyloxirane	Not available.	38172-91-7	1 - 5

The specific chemical identity and concentration have been withheld as a trade secret.

Section 4: First-Aid Measures

Inhalation: If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.

Acute and delayed symptoms and effects: May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Excessive inhalation may cause headache, dizziness, confusion, loss of appetite and/or loss of consciousness.

Eye Contact: If in eyes: Rinse cautiously with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.

Acute and delayed symptoms and effects: Causes serious eye damage. Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision. Ethanol may cause painful sensitization to light, chemical conjunctivitis and corneal damage.

Skin Contact: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Call a poison center or doctor if you feel unwell.
Acute and delayed symptoms and effects: May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

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Ingestion: If swallowed: Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Acute and delayed symptoms and effects: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

General Advice: In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

Note to Physicians: Symptoms may not appear immediately.

Section 5: Fire-Fighting Measures

FLAMMABILITY AND EXPLOSION INFORMATION

Flammable liquid and vapor. Will be easily ignited by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Many liquids are lighter than water.

If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

Fire involving Tanks or Car/Trailer Loads: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

Sensitivity to Mechanical Impact: This material is not sensitive to mechanical impact.

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Sensitivity to Static Discharge:

Take action to prevent static discharges. This material is sensitive to static discharge.

MEANS OF EXTINCTION

Suitable Extinguishing Media:

Small Fire: Dry chemical, CO₂, water spray or regular foam.

Large Fire: Water spray, fog or regular foam. Move containers from fire area if you can do it without risk.

Unsuitable Extinguishing Media:

Do not use straight streams. CAUTION: For mixtures containing alcohol or polar solvent, alcohol-resistant foam may be more effective.

Products of Combustion:

Oxides of carbon.

Protection of Firefighters:

Inhalation or contact with material may irritate or burn skin and eyes. Fire may produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation. Runoff from fire control or dilution water may cause pollution. Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

Section 6: Accidental Release Measures

Emergency Procedures:

As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded.

Personal Precautions:

Do not touch or walkthrough spilled material. Use personal protection recommended in Section 8.

Environmental Precautions:

Prevent entry into waterways, sewers, basements or confined areas.

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Methods for Containment:	Stop leak if you can do it without risk. A vapor suppressing foam may be used to reduce vapors.
Methods for Clean-Up:	Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material.
Other Information:	See Section 13 for disposal considerations.

Section 7: Handling and Storage

Handling:

Do not swallow. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use non-sparking tools. Take action to prevent static discharges. Wash hands thoroughly after handling. See Section 8 for information on Personal Protective Equipment.

Storage:

Store in a well-ventilated place. Keep cool. Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.

Storage 8: Exposure Controls/Personal Protection

Exposure Guidelines

Component

Oxalic acid dihydrate [CAS No. 6153-56-6]
ACGIH: 1 mg/m³ (TWA); 2 mg/m³ (STEL); (2014)
OSHA: No PEL established;

Ethanol [CAS No. 64-17-5]
ACGIH: 1000 ppm (STEL); A3 (2008)
OSHA: 1000 ppm (TWA), 1900 mg/m³ (TWA);

2-Propyn-1-ol compound with methyloxirane
[CAS No. 38172-91-7]
ACGIH: No TLV established.
OSHA: No PEL established.

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PEL: Permissible Exposure Limit
TVL: Threshold Limit Value
TWA: Time-Weighted Average
STEL: Short-Term Exposure Limit

Engineering Controls:

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapour, gas, etc.) below recommended exposure limits. Use explosion-proof electrical, ventilating, and lighting equipment.

PERSONAL PROTECTIVE EQUIPMENT (PPE)



Eye/Face Protection:

Wear chemical safety goggles, and fullface shield. Ensure that eyewash stations and safety showers are close to the workstation location. Use equipment for eye protection that meets the standards referenced by OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.

Hand Protection:

Wear protective gloves. Consult manufacturer specifications for further information.

Skin and Body Protection:

Wear protective clothing. Flame resistant clothing that meets the NFPA 2112 and CAN/CGSB 155.20 standards is recommended in areas where material is stored or handled.

Respiratory Protection:

If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator, or self-contained breathing apparatus must be used.

Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.

General Hygiene Considerations: Handle according to established industrial hygiene and safety practices. Consult a competent industrial hygienist to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.

Section 9: Physical and Chemical Products

Appearance:	Clear, colorless liquid
Colour:	Colourless.
Odour:	Coconut.
Odour Threshold:	Not available.
Physical State:	Liquid.
pH:	0.97
Melting Point / Freezing Point:	Not available.
Initial Boiling Point:	Not available.
Boiling Range:	Not available.
Flash Point:	59 °C (138.2 °F) (ASTM D93)
Evaporation Rate:	Not available.
Flammability (solid, gas):	Not applicable.
Lower Flammability Limit:	Not available.
Upper Flammability Limit:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Relative Density:	1.02005 (Water = 1) at 20 °C (68 °F)
Solubilities:	Soluble in water.
Partition Coefficient: n- Octanol/Water:	Not available.
Auto-ignition Temperature:	Not available.

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Decomposition Temperature:	Not available.
Viscosity:	Not available.
Percent Volatile, wt. %:	Not available.
VOC content, wt. %:	Not available.
Density:	Not available.
Coefficient of Water/Oil Distribution:	Not available.

Section 10: Stability and Reactivity

Reactivity:	Contact with incompatible materials. Sources of ignition. Exposure to heat.
Chemical Stability:	Stable under normal storage conditions.
Possibility of Hazardous Reactions:	None known.
Conditions to Avoid:	Contact with incompatible materials. Sources of ignition. Exposure to heat.
Incompatible Materials:	Bases. Oxidizers.
Hazardous Decomposition Products:	Not available.

Section 11: Toxicological Information

EFFECTS OF ACUTE EXPOSURE

Product Toxicity

Oral:	Not available.
Dermal:	Not available.
Inhalation:	Not available.

Component Toxicity

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Component	CAS No.	LD ₅₀ oral	LD ₅₀ dermal	LC ₅₀
Oxalic acid dihydrate	6153-56-6	Not Available.	Not available.	Not Available.
Ethanol	64-17-5	7060 mg/kg (rat)	20000 mg/kg (rabbit)	20000 pp (rat); 10H
2-Propyn-1-ol compound with methyloxirane	38172-91-7	Not available.	Not available.	Not available.

Likely Routes of Exposure:

Eye contact. Skin contact. Inhalation. Ingestion.

Target Organs:

Skin. Eyes. Gastrointestinal tract. Respiratory system. Blood. Central nervous system.

Symptoms (including delayed and immediate effects)

Inhalation:

May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Excessive inhalation may cause headache, dizziness, confusion, loss of appetite and/or loss of consciousness.

Eye:

Causes serious eye damage. Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision. Ethanol may cause painful sensitization to light, chemical conjunctivitis and corneal damage.

Skin:

May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

Ingestion:

May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Skin Sensitization:

Not available.

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Respiratory Sensitization: Not available.

Medical Conditions Not available.

Aggravated By Exposure:

EFFECTS OF CHRONIC EXPOSURE (from short and long-term exposure)

Target Organs: Skin. Eyes. Gastrointestinal tract. Respiratory system. Blood. Cardiovascular system. Liver. Kidneys. Reproductive system. Central nervous system.

Chronic Effects: Prolonged or repeated contact may dry skin and cause irritation. Prolonged exposure to Ethanol may cause liver, kidney, and heart damage.

Carcinogenicity: Product is not classified as a carcinogen. See Component Carcinogenicity table below for information on individual components. Animal studies with Ethanol have reported the development of tumours.

Component Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Prop 65
Ethanol	A3	Not listed.	Not listed.	OSHA Carcinogen.	Not listed.

Mutagenicity: Laboratory experiments with Ethanol have resulted in mutagenic effects.

Reproductive Effects: Ethanol may cause reproductive effects.

Developmental Effects

Teratogenicity: Not available.

Embryotoxicity: Ethanol has been shown to produce fetotoxicity in the embryo or fetus of laboratory animals. Prenatal exposure to ethanol is associated with a distinct pattern of congenital malformations that have collectively been termed the "fetal alcohol syndrome".

Toxicologically Synergistic Materials: Not available.

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Section 12: Ecological Information

Ecotoxicity:	Not available.
Persistence / Degradability:	Not available.
Bioaccumulation / Accumulation:	Not available.
Mobility in Environment:	Not available.
Other Adverse Effects:	Not available.

Section 13: Disposal Considerations

Disposal Instructions: Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

Section 14: Transport Information

U.S. Department of Transportation (DOT)

Proper Shipping Name: UN1993, FLAMMABLE LIQUIDS, N.O.S. (Ethanol), 3, PG III
Class: 3
UN Number: UN1993
Packing Group: III
Label Code:



ICAO/IATA

Proper Shipping Name: UN1993, FLAMMABLE LIQUIDS, N.O.S. (Ethanol), 3, PG III
Class: 3
UN Number: UN1993
Packing Group: III

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Label Code:



IMDG

Proper Shipping Name: UN1993, FLAMMABLE LIQUIDS, N.O.S. (Ethanol), 3, PG III

Class: 3

UN Number: UN1993

Packing Group: III

Label Code:



Section 15: Regulatory Information

Chemical Inventories US (TSCA)

The components of this product are in compliance with the chemical notification requirements of TSCA.

Federal Regulations United States

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SARA Title III

No components are listed.

State Regulations Massachusetts

US Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

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Component	CAS No.	RTK List
Oxalic acid dihydrate	6153-56-6	Listed.
Ethanol	64-17-5	Listed.

New Jersey

US New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

Component	CAS No.	RTK List
Ethanol	64-17-5	SHHS

Note: SHHS = Special Health Hazard Substance

Pennsylvania

US Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

Component	CAS No.	RTK List
Oxalic acid dihydrate	6153-56-6	Listed.
Ethanol	64-17-5	Listed.

California

California Prop 65: This product does not contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Section 16: Other Information

Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for their own particular use.

Date of Preparation of SDS:	January 3, 2022
Version:	1.1
GHS SDS Prepared by:	Deerfoot Consulting Inc.
	Phone: (403) 720-3700

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