

SAFETY DATA SHEET

Issue Date: October 19, 2010

Revision Date: April 28, 2015

Version 1.

1. IDENTIFICATION

Product Identifier:

Product Name

ORGANIC ACID

Other Means of Identification:

SDS #

BW-007

UN/ID

Not regulated

Recommended Use of the Chemical and Restriction on Use:

Recommended Use: Powered acid rinse additive

Details of the Supplier of Safety Data Sheet:

Blue Wave Ultrasonics
960 South Rolff Street
Davenport, Iowa 52802
1-800-373-0144

Emergency Telephone Number

Emergency Telephone (24 Hr)

INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance: White powder Physical State: Powder Odor: No odor

Classification

Serious eye damage/eye Irritation

Category 2B

Specific Target Organ Systemic Toxicity (STOT) -Single Exposure Category 3

Combustible Dust Category 1

Signal Word:

Warning



Hazard Statements:

Causes eye irritation.

May cause respiratory irritation.

May form combustible dust concentrations in air.

Precautionary Statements - Prevention:

Avoid breathing dust, gas, mist, vapors or spray.

Wash thoroughly after handling.

Use only outdoors or in a well ventilated area.

Precautionary Statements –Response:

IF IN EYES: Rinse cautiously with water for several minutes. If eye irritation persists: get medical attention.

IF ON SKIN (or hair): Take off contaminated clothing. Rinse skin with water. If skin irritation or rash occurs: Get medical attention.

IF INHALED: Move to fresh air and keep in a position for breathing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical attention if you feel unwell.

Precautionary Statements - Storage

Store locked up. Keep container tightly closed.

Precautionary Statements –Disposal

Dispose of contents/container at an approved disposal plant.

Other Hazards

Harmful to aquatic life due to very low pH.

Unknown Acute Toxicity: Oral 0%, Dermal 0%, Inhalation 100%

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %
Hydroxytricarballic Acid	Mixture	100

If Chemical Name/CAS No is “proprietary” and/or Weight % is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

General Advice: Provide this SDS to medical personnel for treatment.

Eye Contact: Flush with large amounts of water for 15 minutes. Gently lift eye lids and flush immediately and continuously with copious amounts of water. Immediate medical attention is required.

Skin contact: Remove contaminated clothing. Rinse with water for 15 minutes. If irritation/redness persist consult physician.

Inhalation: Remove exposed person to fresh air and support breathing as needed. Get medical attention immediately.

Ingestion: Rinse mouth. Do not induce vomiting. Call a physician immediately.

Most important symptoms and effects: May cause skin and eye irritation. Causes severe eye irritation. Eye exposure symptoms may include: redness, burning sensation. Inhalation symptoms may include coughing and moderate mucous membrane irritation. Ingestion may cause severe irritation, resulting in bloody vomiting, pain, and erosion of teeth, in severe cases.

Note to physicians: Treatment is symptomatic and supportive.

5. FIRE FIGHTING MEASURES

Flash Point: N/D Flash Point method: N/D Burning Rate: N/D Autoignition Temperature: N/D
 LEL: N/D UEL: N/D Flammability Classification: N/D
 Extinguishing Media: Use agent suitable for surrounding fire. Examples: water spray, dry chemical, carbon dioxide, alcohol foam.
 Unusual Fire or Explosion Hazards: Dust generated can be explosive if sufficient quantities are mixed in air.
 Hazardous Combustion Products: Carbon dioxide. Carbon Monoxide.
 Fire-Fighting Instructions: Do not release runoff to sewers or waterways.
 Fire-Fighting Equipment: As in any fire, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in positive-pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear protective clothing as described in Section 8 of this safety data sheet.
 Environmental Precautions: See section 12 for additional Ecological Information.
 Methods of Containment: Prevent further leakage or spillage if safe to do so.
 Method for Clean-up: Avoid the generation of dusts during clean-up. Scoop material into suitable container for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE

Handling: Handle in accordance with good industrial hygiene and safety practices. Use personal protection recommended in Section 8. Keep out of reach of children. Avoid contact with skin, eyes or clothing. Use with adequate ventilation. Do not eat or drink while handling.
 Storage: Store in tightly closed container. Store locked up.
 Incompatible Materials: Strong oxidizing agents. Strong acids. Soft metals.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls: Adequate ventilation, Safety showers, Eye wash stations.
 Individual protection measures:
 Eye/Face Protection: Use safety glasses or goggles.
 Skin and Body Protection: Chemical impervious gloves. Boots, aprons needed for protection against spill / splashes.
 Respiratory Protection: Ensure adequate ventilation, especially in confined areas.
 General Hygiene: Avoid contact with skin, eyes, and clothing. Wash hands after handling. Remove any contaminated clothing. If needed take first aid action shown in section 4 of this SDS.

9. PHYSICAL AND CHEMICAL PROPERTIES			
Physical State:	Powder or granules.		Odor: No odor.
Appearance:	White powder.	Odor Threshold:	Not determined
Color:	White		
Property	Values	Property	Values
pH (1% Solution)	2.2	Boiling Point/Boiling Range	N/A
Melting Point/Freezing Point	307 F	Evaporation Rate	N/A
Flash Point	N/D	Upper Flammability Limits	65 gm/FT3
Flammability (solid, Gas)	N/D	Vapor Pressure	N/D
Lower Explosive Limit	8 gm/FT3	Water Solubility (wt/wt)	62%
Specific Gravity (H2O=1)	1.5 Kg/L	Partition Coefficient	N/D
Solubility in other solvents	N/D	Decomposition temperature	N/D
Auto-ignition Temperature	1850 F	Dynamic Viscosity	N/A
Kinematic Viscosity	N/A	Oxidizing Properties	Unknown
Explosive Properties	Combustible		
10. STABILITY AND REACTIVITY			
<u>Reactivity:</u> No data available.			
<u>Chemical Stability:</u> Stable under recommended storage conditions.			
<u>Possibility of Hazardous Reactions:</u> None under normal processing.			
<u>Polymerization:</u> Hazardous polymerization will not occur.			
<u>Conditions to Avoid:</u> Avoid elevated temperatures, dust formation, sources of ignition. Avoid static discharges.			
<u>Incompatible Chemicals:</u> Avoid contact with alkalis, strong oxidizing agent, bases, soft metals, carbonates, acetates and metal nitrates.			
<u>Hazardous Decomposition Products:</u> Carbon monoxide. Carbon dioxide (CO2)			
11. TOXICOLOGICAL INFORMATION			
<u>Information on likely routes of exposure</u>			
Eye Contact	Causes eye irritation.		
Skin Contact	May cause mild to moderate irritation.		
Inhalation	Causes moderate irritation, may cause coughing.		
Ingestion	May cause severe irritation.		
<u>Component Information</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Inhalation LC50</u>
Hydroxytricarballic Acid Mixture	3000 mg/kg (Rat)	>2000 mg/kg (Rat)	No Data
<u>Information on physical, chemical and toxicological effects</u>			
Symptoms:	Please see section 4 of this SDS for symptoms.		
<u>Delayed and immediate effects as well as chronic effects from short and long-term exposure.</u>			
Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC, or NTP.			
STOT: May cause respiratory irritation.			
<u>Numerical measures of toxicity</u>			
Not determined.			
<u>Unknown Acute Toxicity:</u> Oral 0%, Dermal 0%, Inhalation 100%			

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic organisms due to low pH.

Component Information

Not determined.

Persistence /Degradability

Not determined.

Bioaccumulation

Not determined. Material is not expected to bioaccumulate. Product is readily biodegradable.

Mobility

Not determined

Other Adverse Effects

Not determined.

13. DISPOSAL CONSIDERATIONS

Water Treatment Methods

Disposal of wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations.

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

14. TRANSPORTATION INFORMATION

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

US DOT

Not regulated.

IATA

Not regulated.

IMDG

Not regulated.

Marine Pollutant This product may meet the definition of a marine pollutant

15. REGULATORY INFORMATION

International Inventories

All components of this product are on the TSCA inventory or are exempt from TSCA inventory requirements.

US FEDERAL

SARA 313 –Hazard Categories: Immediate (Acute)=Yes; Delayed (Chronic)=No; Fire Hazard=No; Pressure Release=No; Reactive=No.

U.S. State Regulations

U.S. State Right-to Know Regulations

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards 2	Flammability 1	Instability 0	Special Hazards None
<u>HMIS</u>	Health Hazards 1	Flammability 1	Physical Hazards 0	Personal Protection B

Issue Date: October 19, 2010
Revision Date: April 28, 2015
Revision Note: New format

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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

End of Safety Data Sheet