

SAFETY DATA SHEET

Issue Date: October 5, 2009

Revision Date: April 22, 2015

Version 1.

1. IDENTIFICATION

Product Identifier:

Product Name **BW-7808**

Other Means of Identification:

SDS # BW-009

UN/ID Not Regulated.

Recommended Use of the Chemical and Restriction on Use:

Recommended Use Liquid cleaner.

Details of the Supplier of Safety Data Sheet:

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

Emergency Telephone Number

563-322-4882
800-373-0601

2. HAZARDS IDENTIFICATION

Appearance: Red/orange Liquid Physical State: Liquid Odor: Cherry

Classification:

Causes skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 1

Signal Word: Danger



Hazard Statements:

Harmful if swallowed.
May be harmful in contact with skin.
Causes serious eye damage.

Precautionary Statements - Prevention:

Wear protective gloves and eye protection.
Wash face, hands and any exposed skin thoroughly after handling.

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 all contaminated clothing. Rinse skin with water. If skin irritation occurs, get medical attention.
 IF DIFFICULTY BREATHING: Move person to fresh air and keep comfortable for breathing.
 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Get medical attention if you feel unwell.

Precautionary Statements - Storage

Store locked up.

Precautionary Statements –Disposal

Dispose of contents/container at an approved disposal plant.

Other Hazards

None.

Unknown Acute Toxicity

Oral 14.6%, Dermal 14.6%. Inhalation 19.9%

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %
Proprietary Ingredient	Mixture	8-12
Ethylenediamine Tetraacetate	64-02-8	<3
Potassium hydroxide	1310-58-3	<2
Alkylpolyglycoside	68515-73-1	<1

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: Do not allow person to rub eye or keep eye tightly shut. Flush with large amounts of water for 15 minutes. Gently lift eye lids and flush immediately and continuously with copious amounts of water. Consult a physician or ophthalmologist if discomfort persists.

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. Consult a physician if individual declines or if symptoms persist.

Ingestion: Rinse mouth. Do not induce vomiting. Drink large amounts of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Get medical attention if symptoms occur.

Most important symptoms and effects: May cause skin and eye irritation. In severe cases, burns, corneal damage, and blindness may occur. May cause irritation to the mucous membranes and upper respiratory tract.

Note to physicians: Treatment is symptomatic and supportive.

5. FIRE FIGHTING MEASURES

Flash Point: Noncombustible. Flash Point method: N/D Burning Rate: N/D
 Autoignition Temperature: Noncombustible.
 LEL: N/D UEL: N/D Flammability Classification: N/D
 Extinguishing Media: Use agent suitable for surrounding fire.
 Unusual Fire or Explosion Hazards: N/D
 Hazardous Combustion Products: N/D
 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. Ventilate affected area.
 Environmental Precautions: This product may be toxic to fish; prevent run off from entering storm sewers, streams, lakes and other bodies of water. See Section 12 for additional Ecological Information.
 Methods of Containment: Prevent further leakage or spillage if safe to do so. Soak up and contain spill with an absorbent material.
 Method for Clean-up: Sweep up absorbed material and shovel into suitable containers 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 this SDS.

7. HANDLING AND STORAGE

Handling: Handle in accordance with good industrial hygiene and safety practices. Use personal protection recommended in Section 8. 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 away from incompatible substances.
 Incompatible Materials: Strong oxidizing agents, Organic acids, Inorganic acids, Light metals.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>NIOSH IDLH</u>	<u>DNEL</u>
Ethylenediamine Tetraacetate 64-02-8	2 mg/m ³	2 mg/m ³		
Potassium Hydroxide 1310-58-3	2 mg/m ³	2 mg/m ³		
Alkylpolyglycoside 68515-73-1				124 mg/mg ³

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: Liquid Odor: Cherry
 Appearance: Red/orange Liquid Odor Threshold: Not determined
 Color: Red/orange

Property	Values	Property	Values
pH	13.0	Boiling Point/Boiling Range	N/D
Melting Point/Freezing Point	0 °C/ 32° F	Evaporation Rate	N/D
Flash Point	Will not burn	Upper Flammability Limits	N/A
Flammability (solid, Gas)	Will not burn	Vapor Pressure	N/D
Lower Flammability Limit	N/A	Water Solubility (wt/wt)	100%
Specific Gravity (H2O=1)	1.10 kg/l	Partition Coefficient	N/D
Solubility in other solvents	N/D	Decomposition temperature	N/D
Auto-ignition Temperature	N/A	Dynamic Viscosity	6.5 CPS
Kinematic Viscosity	N/D	Oxidizing Properties	N/D
Explosive Properties	N/A		

10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.
 Chemical Stability: Stable under recommended storage conditions.
 Possibility of Hazardous Reactions: None under normal processing.
 Polymerization: Hazardous polymerization will not occur.
 Conditions to Avoid: Incompatible materials.
 Incompatible Chemicals: Strong oxidizing agents, organic acids, inorganic acids, light metals.
 Hazardous Decomposition Products: None known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye Contact Causes eye damage
 Skin Contact May cause skin burns or irritation
 Ingestion May be harmful if swallowed. Ingestion may cause irritation to mucous membranes.

Component Information

	Oral LD50	Dermal LD50	Inhalation LC50
Ethylenediamine Tetraacetate 64-02-8	=3030 mg/kg (Rat)	>5000 mg/kg (Rabbit)	
Alkylpolyglycoside 68515-73-1	>2000 mg/kg (Rat)	>2000 mg/kg (Rabbit)	

<p><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: The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.</p>				
	<u>ACGIH</u>	<u>IARC</u>	<u>NTP</u>	<u>OSHA</u>
	None	None	None	None
<p>ACGIH (American Conference of Government Industrial Hygienists) A3 - Animal Carcinogen IARC (International Agency for Research on Cancer) Group 3 IARC components are "not classifiable as human carcinogens".</p>				
<p><u>Numerical measures of toxicity</u> Not determined</p>				
<p><u>Unknown Acute Toxicity</u> Oral 14.6%, Dermal 14.6%. Inhalation 19.9%</p>				
<p>12. ECOLOGICAL INFORMATION</p>				
<p><u>Ecotoxicity</u> None known.</p>				
<p><u>Component Information</u></p>				
	Algae/aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
Ethylenediamine Tetraacetate 64-02-8		150: 96 h Lepomis macrochirus LC50 mg/L		
Potassium Hydroxide 1310-58-3	61: 96 h Selenastrum capricornutum ErC50 mg/L	179: 96 h Fathead minnow LC50 mg/L		60: 48 h Daphnia magna EC50 mg/L
Alkylpolyglycoside 68515-73-1	27: 72 h Scenedesmus Subspicatus EC50 mg/L	100: 96 h Brachdanio rerio LC50 mg/L		>100: 48 h Daphnia magna EC50 mg/L
<p><u>Persistence /Degradability</u> Not determined.</p>		<p><u>Bioaccumulation</u> Not determined.</p>		
<p><u>Mobility</u> Not determined.</p>		<p><u>Other Adverse Effects</u> Not determined.</p>		
<p>13. DISPOSAL CONSIDERATIONS</p>				
<p><u>Water Treatment Methods</u> 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.</p>				
<p><u>California Hazardous Waste Status</u> None Known</p>				

14. TRANSPORTATION INFORMATION

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

Not determined

US FEDERAL

CERCLA

Potassium Hydroxide 1310-58-3	Hazardous Substance RQs 1000 lb	CERCLA/SARA RQs —	Reportable Quantity(RQ) RQ 1000 lb final RQ RQ 454 kg final RQ
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SARA 313

Not determined

CWA (Clean Water Act)

Potassium Hydroxide
1310-58-3

CWA-Reportable Quantities

1000 lb

CWA-Toxic Pollutant

No

CWA-Priority Pollutant

No

CWA-Hazardous Substances

Yes

U.S. State Regulations

U.S.State Right-to Know Regulations

Potassium Hydroxide 1310-58-3	New Jersey X	Massachusetts X	Pennsylvania X
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16. OTHER INFORMATION

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

Issue Date: 10/5/2009
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 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