

## SAFETY DATA SHEET

Issue Date: November 22, 2013

Revision Date: May 27, 2015

Version 1.

### 1. IDENTIFICATION

Product Identifier:

Product Name

**BW-3100**

Other Means of Identification:

SDS #

BW-002

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

Emergency Telephone (24 Hr)

INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

### 2. HAZARDS IDENTIFICATION

Appearance: Amber liquid

Physical State: Liquid

Odor: Citrus

Classification:

Skin irritation

Category 2, Sub-category B

Eye Irritation

Category 2, Sub-category B

Harmful to aquatic life, long term hazard

Category 2

Signal Word:

Warning

Hazard Statements:

Causes mild skin irritation

Causes eye irritation

May cause respiratory irritation



Precautionary Statements - Prevention:

Wash face, hands and any exposed skin thoroughly after handling.

Wear protective gloves and eye protection.

Avoid breathing vapor.

Precautionary Statements –Response:

IF IN EYES: Rinse cautiously with water for several minutes. Get medical attention if you feel unwell.

IF ON SKIN (or hair): Take off all contaminated clothing. Rinse skin with water.

IF INHALED: Remove 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

Harmful to aquatic life.

Unknown Acute Toxicity: Oral 24%, Dermal 23.8%, Inhalation 47.8%

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %
Nonylphenol, Ethoxylated	127087-87-0	10-15
Citrus Terpenes	94266-47-4	10-15
Phosphate, Alkoxylated	68130-47-2	5-10
Monoethanolamine	141-43-5	3-5

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. 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: N/D    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:    See section 12 for additional Ecological Information.  
 Methods of Containment:        Prevent further leakage or spillage if safe to do so.  
 Method for Clean-up:            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. 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:         Very strong acids. Strong oxidizers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>NIOSH IDLH</u>
Monoethanolamine 141-43-5	6 ppm	6 mg/mg <sup>3</sup>	15 mg/mg <sup>3</sup>

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.

<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>			
Physical State:	Liquid	Odor:	Citrus
Appearance:	Amber liquid	Odor Threshold:	Not determined
Color:	Amber		
<u>Property</u>	<u>Values</u>	<u>Property</u>	<u>Values</u>
pH	10.1		
Melting Point/Freezing Point	Not determined	Boiling Point/Boiling Range	Not determined
Flash Point	Not determined	Evaporation Rate	Not determined
Flammability (solid, Gas)	Not determined	Upper Flammability Limits	Not determined
Lower Flammability Limit	Not determined	Vapor Pressure	Not determined
Specific Gravity (H2O=1)	1.05	Water Solubility (wt/wt)	100%
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 determined	Oxidizing Properties	Not determined
<b>10. STABILITY AND REACTIVITY</b>			
<u>Reactivity:</u> Not reactive under normal conditions.			
<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> Keep out of reach of children.			
<u>Incompatible Chemicals:</u> Very strong acids. Strong oxidizers.			
<u>Hazardous Decomposition Products:</u> Reactions with metals may produce hydrogen gas.			
<b>11. TOXICOLOGICAL INFORMATION</b>			
<u>Information on likely routes of exposure</u>			
Eye Contact	Causes eye irritation.		
Skin Contact	Causes mild skin irritation.		
Inhalation	May cause respiratory irritation.		
Ingestion	May be harmful if swallowed.		
<u>Component Information</u>			
	Oral LD50	Dermal LD50	Inhalation LC50
Nonylphenol, Ethoxylated 127087-87-0		>2000 mg/kg (Rabbit)	
Citrus Terpenes 94266-47-4	>2000 mg/kg (Rat)	>5000 mg/kg (Rabbit)	
Monoethanolamine 141-43-5	10000 mg/kg (Rat)	1025 mg/kg (Rabbit)	
<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 24%, Dermal 23.8%, Inhalation 47.8%.			

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic organisms

Component Information

	<b>Algae/aquatic plants</b>	<b>Fish</b>	<b>Toxicity to microorganisms</b>	<b>Crustacea</b>
Nonylphenol, Ethoxylated 127087-87-0		73-76: 96 h Pimephales Promelas mg/L LC50		
Monoethanolamine 141-43-5		114-196 h Oncorhynchus mykiss mg/L LC50		

Persistence /Degradability

Not determined.

Bioaccumulation

**Partition coefficient n-octanol/water (log Kow)**

Monoethanolamine -1.31

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.

California Hazardous Waste Status:

Not listed

14. TRANSPORTATION INFORMATION

US DOT

Not regulated in containers 119 Gallons or less.

IATA

UN/ID #	UN3082
PSN	Environmental hazardous substance, liquid, n.o.s. (Nonylphenol, Ethoxylated)
Hazard Class	9
Packing Group	III

IMDG

UN/ID #	UN3082
PSN	Environmental hazardous substance, liquid, n.o.s. (Nonylphenol, Ethoxylated)
Hazard Class	9
Packing Group	III

Marine Pollutant: Yes

15. REGULATORY INFORMATION

International Inventories

Not determined

US FEDERAL

SARA 313

Not determined

US State Regulations

U.S. State Right-to-Know Regulations

Not determined

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	1	1	0	
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	1	1	0	B

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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