

SAFETY DATA SHEET

Issue Date: October 10, 2010

Revision Date: April 28, 2015

Version 1.

1. IDENTIFICATION

Product Identifier:

Product Name **DIRL-LUM 603**

Other Means of Identification:

SDS # BW-005

UN/ID UN3262

Recommended Use of the Chemical and Restriction on Use:

Recommended Use: Powered alkaline cleaner.

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: Pink colored powder Physical State: Solid Odor: Surfactant

Classification:

Acute toxicity – Oral	Category 4
Skin corrosion/irritation	Category 1, Sub-category C
Serious eye damage/eye irritation	Category 1
Hazardous to aquatic environment, long term hazard	Category 2

Signal Word:

Danger



Hazard Statements:

Harmful if swallowed.
Causes severe eye damage.
Causes severe skin burns.

Precautionary Statements - Prevention:

Do not eat, drink or smoke when using this product.
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 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.

Unknown Acute Toxicity: Oral 4%, Dermal 44%, Inhalation 72%

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %
Sodium Metasilicate	6834-92-0	<40
Sodium Carbonate	497-19-8	25-30
Nonylphenol, Ethoxylated	127087-87-0	<3

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. In severe cases, burns, corneal damage, and blindness may occur.
The product contains a small amount of sensitizing substance which may provoke an allergic reaction among sensitive individuals in contact with skin.

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.
 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

	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Metasilicate 6834-92-0	2 mg/m ³	2 mg/m ³	
Sodium Carbonate 497-19-8	3 mg/m ³	5 mg/m 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: Solid
 Appearance: Pink Color Powder
 Color: Pink
 Odor: Surfactant
 Odor Threshold: Not determined

Property	Values	Property	Values
pH (1% Solution)	12.0		
Melting Point/Freezing Point	Not determined	Boiling Point/Boiling Range	Not determined
Flash Point	Will not burn	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 (H ₂ O=1)	59 lbs/ft ³	Water Solubility (wt/wt)	15%
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

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: Keep out of reach of children.

Incompatible Chemicals: Strong oxidizing agent. Strong acids. Soft metals.

Hazardous Decomposition Products: Carbon monoxide. Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye Contact Causes eye damage.
 Skin Contact Causes severe skin burns.
 Inhalation May be harmful if inhaled.
 Ingestion Harmful if swallowed.

Component Information

	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Metasilicate 6834-92-0	=1200 mg/kg (Rat)		
Sodium Carbonate 497-19-8	=2800 mg/kg (Rat)	>200mg/kg (Rabbit)	2.3 mg/l 2h (Rat)
Nonylphenol, Ethoxylated 127087-87-0	>10 g/kg (Rat)	>2 g/kg (Rat)	

Information on physical, chemical and toxicological effects

Symptoms: Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure.

Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC, or NTP.

STOT: May cause respiratory irritation.

Numerical measures of toxicity

Not determined

Unknown Acute Toxicity: Oral 4%, Dermal 44%, Inhalation 72%

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic organisms

Component Information

	<u>Algae/aquatic Plants</u>	<u>Fish</u>	<u>Toxicity to Microorganisms</u>	<u>Crustacea</u>
Sodium Metasilicate 6834-92-0		210: 96 h Brachydnio rerio mg/L LC50 semi-static 210: 96 h Bachydanio rerio mg/L LC50		216: 96 h Daphnia magna mg/L EC50
Sodium Carbonate 6834-92-0		300: 96 h Lepomis macro- chirus mg/L LC50		200: 48 h Cerio- daphnia dubia mg/L EC50
Ethoxylated Alcohol 127087-87-0	1-10:96 h Algae mg/L EC50	1-10: 96 h Pimephales promelas mg/L LC50		1-10: 48 h Daphnia magna mg/L EC50

Persistence /Degradability

Not determined.

Bioaccumulation

Not determined.

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

<u>US DOT</u>		<u>IATA</u>	
UN/ID #	UN3262	UN/ID #	UN3262
PSN	Corrosive solid, basic, inorganic, n.o.s. (Sodium Metasilicate)	PSN	Corrosive solid, basic, inorganic, n.o.s. (Sodium Metasilicate)
Hazard Class	8	Hazard Class	8
Packing Group	III	Packing Group	III
<u>IMDG</u>			
UN/ID #	UN3262		
PSN	Corrosive solid, basic, inorganic, n.o.s. (Sodium Metasilicate)		
Hazard Class	8		
Packing Group	III		

15. REGULATORY INFORMATION

International Inventories

Not determined

US FEDERALSARA 313

None Listed

U.S. State Regulations

U.S. State Right-to Know Regulations

None determined

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	2	0	0	Cor
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2	0	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