



Safety Data Sheet

DirI-Lum 603

SECTION 1: Identification

1.1 GHS Product identifier

Product name	DirI-Lum 603
Product number	603
Brand	Blue Wave Ultrasonics

1.3 Recommended use of the chemical and restrictions on use
Powdered alkaline cleaner used in Ultrasonic cleaning equipment.

1.4 Supplier's details

Name	Blue Wave Ultrasonics
Address	209 West 76th Street Davenport Iowa 52806 USA
Telephone	(563)-322-0144
Fax	(563)-322-7180
email	Sales@bluewaveinc.com

1.5 Emergency phone number

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

SECTION 2: Hazard identification

General hazard statement
No data available

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Eye damage/irritation, Cat. 1
- Skin corrosion/irritation, Cat. 1B
- Specific target organ toxicity (single exposure), Cat. 3
- Acute toxicity, oral, Cat. 4

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2.2 GHS label elements, including precautionary statements

Pictograms



Signal word

Danger

Hazard statement(s)

Harmful if swallowed

Causes severe skin burns and eye damage

Precautionary statement(s)

Prevention	Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands and face thoroughly after handling. Do not eat, drink or smoke when using this product.
Response	IF SWALLOWED: Call a POISON CENTER /doctor/ if you feel unwell,. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container to an approved waste disposal plant.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Component	CAS no.	Concentration
Sodium Metasilicate (EC no.: 229-912-9; Index no.: 014-010-00-8)	10213-79-3	< 39 % (weight)
Sodium carbonate (EC no.: 207-838-8; Index no.: 011-005-00-2)	497-19-8	< 30 % (weight)
Alkylphenol ethoxylate (EC no.: 500-315-8)	127087-87-0	< 1 % (weight)

Proprietary chemical identity and percentage composition have been withheld as trade secrets.

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
In case of skin contact	Wash with plenty of water for at least 15 minutes. Call a poison center or doctor if irritation develops or persists. Acute and delayed symptoms and effects: May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

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If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Personal protective equipment for first-aid responders

No data available.

4.2 Most important symptoms/effects, acute and delayed

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 when in contact with skin.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treatment is symptomatic and supportive.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use extinguishing media appropriate for surrounding fire.

5.2 Specific hazards arising from the chemical

Sodium carbonate: Carbon oxides, Sodium oxides.

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.

6.2 Environmental precautions

Should not be released into the environment. See Section 12 for additional ecological information.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. Provide appropriate exhaust ventilation at places where dust is formed. Dust safety masks are recommended when dust concentration is more than 10 mg/m³. For precautions see section 2.2. Dust safety masks are recommended when dust concentration is more than 10 mg/m³.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

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Specific end use(s)

Apart from the uses mentioned in section 1, no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

CAS: 10213-79-3 (EC: 229-912-9)

Sodium Metasilicate

ACGIH: 10 mg/m³ TLV® inhalation

CAS: 497-19-8 (EC: 207-838-8)

Sodium carbonate

ACGIH: 10 mg/m³ TLV® inhalation

8.2 Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Eye/Face Protection: For splash protection, use chemical goggles. Eye wash fountain is recommended.

Skin protection

Skin Protection: Protective gloves (for hands) and protective clothing are required where repeated or prolonged skin contact may occur.

Body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.

Thermal hazards

No data available

Control banding approach

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P280ef - Wear eye protection/face protection.

Environmental exposure controls

Product and solutions made from product must only go to proper waste plant facilities that are designed to handle the product and any contaminants the solution contains.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Solid
Appearance	Pink Color Powder
Color	Pink
Odor	Surfactant
Odor threshold	Not Determined
Melting point/freezing point	Not Determined
Boiling point or initial boiling point and boiling range	Not Determined
Flammability	Will Not Burn
Lower and upper explosion limit/flammability limit	Not Determined
Flash point	Will Not Burn
Explosive properties	Not Determined
Auto-ignition temperature	Will Not Burn
Decomposition temperature	Not Determined
Oxidizing properties	Not Determined
pH	12 pH in 1% solution
Kinematic viscosity	Not Determined
Solubility	15% in water @ 20 C
Partition coefficient n-octanol/water (log value)	Not Determined
Vapor pressure	Not Determined
Evaporation rate	Not Determined
Density and/or relative density	59 LBS per Cubic Foot
Relative vapor density	Not Determined
Particle characteristics	Not Determined

Supplemental information regarding physical hazard classes

No data available.

Further safety characteristics (supplemental)

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

None under normal use conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None under normal use conditions.

10.4 Conditions to avoid

Exposure to moisture. Material will cake and harden if not kept dry.

10.5 Incompatible materials

Sodium carbonate: Sodium carbonate reacts with acids with release of large volumes of carbon dioxide gas.
Alkylphenol ethoxylate: Strong acids, Strong oxidizing agents

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Oxidizing agents. Sodium metasilicate can release hydrogen gas in contact with the incompatibles, causing a risk for explosion.

10.6 Hazardous decomposition products

Alkylphenol ethoxylate: Other decomposition products - Carbon Monoxide, Carbon Dioxide (CO₂).

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Sodium Metasilicate -Pentahydrate -CAS 10213-79-3, LD50-Oral Rat - 847 mg/kg.

Sodium Carbonate -CAS 497-19-8, LD50-Oral Rat 2,800 mg/kg, LD50-Dermal Rabbit >2,000 mg/kg.

Skin corrosion/irritation

Causes severe skin burns.

Serious eye damage/irritation

Risk of serious damage to eyes.

Respiratory or skin sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Sodium carbonate: mouse LC50 inhalation 1200mg/m³/2H (1200mg/m³)

Germ cell mutagenicity

No data available

Carcinogenicity

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Summary of evaluation of the CMR properties

No data available.

Specific target organ toxicity (STOT) - single exposure

Sodium Metasilicate -Cas 10213-79-3, Classified as Specific Target Organ Toxicant, single exposure Category 3, with Respiratory tract irritation.

Specific target organ toxicity (STOT) - repeated exposure

Based on available data, classification data are not met

Aspiration hazard

No data available

Additional information

No data available.

SECTION 12: Ecological information

Toxicity

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Alkylphenol ethoxylate

LC50 - Daphnia magna (water flea) - 9.3 - 21.4 mg/l - - 9.3 - 21.4 mg/l

Sodium carbonate

EC50 - Daphnia magna (water flea) - 265 mg/l - 48 h

Persistence and degradability

No data available on product

Bioaccumulative potential

No data available on product

Mobility in soil

No data available

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Endocrine disrupting properties

No data available

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Dispose of contents/ container in accordance with the local/regional/national/international regulations. Disposal should be in accordance with local, state and federal regulations. Solutions of diluted detergent in the course of use, may be allowed to be flushed down approved sanitary/industrial sewer. First check with your local water treatment plant. Dispose of empty bottle in the trash or recycle where facilities exist.

Packaging disposal

Dispose of as empty package can be disposed of in approved commercial land fill or incinerator.

Waste treatment

Disposal should be in accordance with local, state and federal regulations. Solutions of diluted detergent in the course of use, may be allowed to be flushed down approved sanitary/industrial sewer. First check with your local water treatment plant

Sewage disposal

Solutions of diluted detergent in the course of use, may be allowed to be flushed down approved sanitary/industrial sewer. First check with your local water treatment plant

Other disposal recommendations

No data available.

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SECTION 14: Transport information

DOT (US)

UN Number: UN3262

Class: 8

Packing Group: III

Proper Shipping Name: Corrosive solid, basic, inorganic, n.o.s. (Sodium Metasilicate)

IMDG

UN Number: UN3262

Class: 8

Packing Group: III

EMS Number:

Proper Shipping Name: Corrosive solid, basic, inorganic, n.o.s. (Sodium Metasilicate)

IATA

UN Number: UN3262

Class: 8

Packing Group: III

Proper Shipping Name: Corrosive solid, basic, inorganic, n.o.s. (Sodium Metasilicate)

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Canadian Domestic Substances List (DSL)

Chemical name: Carbonic acid disodium salt

CAS number: 497-19-8

Chemical name: Poly(oxy-1,2-ethanediyl), α -(4-nonylphenyl)- ω -hydroxy-, branched

CAS number: 127087-87-0

EU Table of Harmonised Entries (Annex VI to CLP)

Chemical name: Sodium carbonate

CAS number: 497-19-8

SVHC Candidate List for Authorisation

Chemical name: Alkylphenol ethoxylate

CAS number: 127087-87-0

Massachusetts Toxic Use Reduction Act (TURA) list

Chemical name: Poly(oxy-1,2-ethanediyl), α -(4-nonylphenyl)- ω -hydroxy-, branched

CAS number: 127087-87-0

TRI listing: unlisted; CERCLA listing: unlisted; TURA-only listing: no; de minimis concentration threshold: 1 percent.

Qualifiers/definitions: Report as part of Nonylphenol Ethoxylates (NPEs) category, DEP Code 1046. Do not report as an individual chemical. Changes: Added to TRI RY2019, Added to TURA RY2020

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards

Acute Health Hazard: See section 11.

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SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US EPA TSCA public inventory

Chemical name: Sodium carbonate

CAS number: 497-19-8

Chemical name: Alkylphenol ethoxylate

CAS number: 127087-87-0

HMIS Rating

DirI-Lum 603	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

NFPA Rating



SECTION 16: Other information

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall Blue Wave Ultrasonics be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Blue Wave Ultrasonics has been advised of the possibility of such damages.