

SAFETY DATA SHEET

Issue Date: January 28, 2011

Revision Date: May 20, 2015

Version 1.

1. IDENTIFICATION

Product Identifier:

Product Name **DIRL-STRIP 606**

Other Means of Identification:

SDS # BW-001

UN/ID UN1759

Recommended Use of the Chemical and Restriction on Use:

Recommended Use Powdered Alkaline 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: Brown powder Physical State: Solid Odor: Surfactant

Classification

Acute toxicity – Oral Category 4
Skin corrosion/irritation Category 1, Sub-category B
Serious eye damage/eye Irritation Category 1

Signal Word:

Danger

Hazard Statements:

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

Precautionary Statements –Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses. Continue rinsing.

If discomfort persists get medical attention.

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

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

IF SWALLOWED: Rinse mouth. Do not induce vomiting. Call a POISON CENTER 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 51%, Dermal 24%, Inhalation 80%

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %
Sodium Hydroxide	1310-73-2	50-60
Sodium Carbonate	497-19-8	20-30
Sodium Tripolyphosphate	7758-29-4	5-10
Triethylene Glycol	112-27-6	<2

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: 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. 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: Hydrocarbons. Organic acids. Inorganic acids. Metal compounds.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Hydroxide 1310-73-2	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³ (vacated) Ceiling: 2mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³
Sodium Carbonate 497-19-8	Ceiling: 3 mg/m ³	TWA: 5 mg/m ³	
Sodium Tripolyphosphate 7758-29-4	Ceiling: 15 mg/m ³	TWA: 15 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: Brown Powder
 Color: Brown

Odor: Surfactant
 Odor Threshold: Not determined

Property	Values	Property	Values
Ph (1% solution)	12.5		
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)	65 lbs/ft ³	Water Solubility (wt/wt)	30%
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: Hydrocarbons. Organic acids. Inorganic acids. Metal compounds.

Hazardous Decomposition Products: Reactions with metals may produce hydrogen gas.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye Contact	Causes serious eye damage
Skin Contact	Causes severe skin burns and eye damage.
Inhalation	May cause respiratory irritation.
Ingestion	Harmful if swallowed.

Component Information

	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Hydroxide 1310-73-2		=1350 mg/kg (Rabbit)	
Sodium Carbonate 497-19-8	=2800 mg/kg	>2000 mg/kg (Rabbit)	2.3:2 h Rat, mg/L, LC50
Sodium Tripolyphosphate 7758-29-4	=3100 mg/kg (Rat)	>7940 mg/kg (Rabbit)	
Triethylene Glycol 112-27-6	=17000 mg/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 51%, Dermal 24%, Inhalation 80%

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 Hydroxide 1310-73-2		45.4: 96 h Oncorhynchus mykiss mg/L LC50 static		
Sodium Carbonate 497-19-8		300: 96 h Lepomis Macrochirus mg/L LC50		200: 48 h Ceriodaphnia Dubia, mg/l EC50
Sodium Tripolyphosphate 7758-29-4		1650: 48 h Leuciscus idus mg/L LC50		

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.

California Hazardous Waste Status

Sodium Hydroxide
1310-73-2

Classified as Toxic/ Corrosive

14. TRANSPORTATION INFORMATION

US DOT

UN/ID # UN1759
PSN Corrosive solid, n.o.s.
(Sodium Hydroxide)
Hazard Class 8
Packing Group II

IATA

UN1759
Corrosive solid, basic, n.o.s.
(Sodium Hydroxide)
8
II

IMDG

UN/ID # UN1759
PSN Corrosive solid, n.o.s.
(Sodium Hydroxide)
Hazard Class 8
Packing Group II

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

15. REGULATORY INFORMATION

International Inventories

Not determined

US FEDERAL

CERCLA

Sodium Hydroxide (RQ)	Hazardous Substance RQs	CERCLA/SARA RQs	Reportable Quantity
1310-73-2	1000 lb	—	RQ 1000 lb final RQ RQ 454 kg final RQ

SARA 313

Not determined

CWA (Clean Water Act)

CWA-Reportable Quantities

CWA-Toxic Pollutant

Sodium Hydroxide 1310-73-2	1000 lb	No
	CWA-Priority Pollutant No	CWA-Hazardous Substances Yes

U.S. State Regulations

U.S.State Right-to Know Regulations

	New Jersey	Massachusetts	Pennsylvania
Sodium Tripolyphosphate 7758-29-4		X	X
Sodium Hydroxide 1310-73-2	X	X	X

16. OTHER INFORMATION

NFPA

Health Hazards	Flammability	Instability	Special Hazards
3	0	2	Cor

HMIS

Health Hazards	Flammability	Physical Hazards	Personal Protection
3	0	2	C

Issue Date: January 28, 2011

Revision Date: May 20, 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