MATERIAL SAFETY DATA SHEET

MANUFACTURER NAME:

BLUE WAVE ULTRASONICS

960 S. ROLFF STREET
DAVENPORT, IOWA 52802

PRODUCT NAME:

DIRL-STRIP 606

CHEMICAL NAME:
HEAVY DUTY SONIC CLEANER

CHEMICAL FAMILY:
POWDERED ALKALINE CLEANER

DATE MSDS WAS PREPARED:
December 1, 2003

MSDS PREPARED BY
MDJ/CTB

PHONE NUMBER(FOR INFORMATION):
1-800-373-0144

EMERGENCY PHONE NUMBER:
1-800-424-9300 CHEMTREC

SECTION I: MATERIAL IDENTIFICATION AND INFORMATION

The composition of this mixture may be proprietary information. In the event of a medical emergency, compositional information will be provided to a physician or nurse. The following is a list of hazardous materials, as defined in CFR title 29 part 1910.1200, contained within this mixture.

COMPONENTS - Chemical Name or Common Name	CAS NUMBER	APPROXIMATE % (Weight)	AIR CONTAMINATE LEVELS		
Hazardous Components 1% or greater, Carcinogens 0.1% or greater			TLV	STEL	CEILING
Contains No Carcinogens					
Sodium Hydroxide	1310-73-2	<60	2 mg/m^3		2 mg/m^3

SECTION II: PHYSICAL PROPERTIES / CHEMICAL CHARACTERISTICS

BOILING POINT / RANGE	N/D	pH: 1% aqueous approximate	>12.50
FREEZING POINT	N/D	SPECIFIC GRAVITY	65 lbs./ft^3
VAPOR PRESSURE (MM Hg)	N/D	SOLUBILITY IN WATER	30 %
VAPOR DENSITY (AIR=1)	N/D	APPEARANCE:	
EVAPORATION RATE (N-Butyl Acetate =1)	N/D	BROWN POWDER	
		ODOR	
		SURFACTANT	

SECTION III: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method)	AUTO-IGNITION TEMP	FLAMMABLE LIMITS	UPPER:	LOWER:
N/D	N/D	(% VOLUME IN AIR)	N/D	N/D

RECOMMENDED EXTINGUISHING MEDIA:

CO2, Dry Chemical, or Foam Extinguisher or Water Fog.

SPECIAL FIRE FIGHTING PROCEDURES:

Prevent human exposure to fire, fumes, smoke and products of combustion. Evacuate non-essential personnel. Firefighters should wear full face, self contained breathing apparatus and impervious protective clothing.

UNUSUAL FIRE & EXPLOSION HAZARDS

Material can generate explosive hydrogen gas on contact with certain metals and reacts violently with water. Runoff from fire control may cause pollution.

SECTION IV. HEALTH HAZARDS

POTENTIAL EFFECTS OF EXPOSURE

EYE CONTACT:

Eye contact with product may cause severe irritation, corneal burns, and severe tissue destruction, and irreversible damage including blindness. Do not wear contact lenses when working with this product.

SKIN CONTACT:

Skin contact may cause pain, severe burns, tissue destruction and skin damage. Skin burns may be slow in healing.

INHALATION:

Inhalation may cause sneezing, coughing, breathing difficulty, and irreversible damage to the respiratory tract.

INGESTION:

Ingestion may cause burns, tissue perforation, shock symptoms (rapid pulse, sweating, collapse) and even death.

OVEREXPOSURE MAY CAUSE DAMAGE TO:

All body tissues.

SECTION V. HEALTH HAZARDS (Continued)

EMERGENCY FIRST AID AND MEDICAL PROCEDURES

EYE CONTACT:

Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids apart to ensure flushing of entire surface. Call a physician.

SKIN CONTACT:

Immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Thoroughly clean clothing before reuse. Discard contaminated shoes and contaminated leather articles. Call a physician if irritation persists.

INHALATION:

Remove to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. If breathing is difficult, administer oxygen. Call a physician if irritation persists.

INGESTION:

Swallowing of product can cause severe burns of the mucous membrane of the mouth, throat, esophagus and the stomach. The patient should be encouraged to immediately drink a large amount of water. Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent breathing vomit into lungs. Call a physician immediately.

SECTION VI. PERSONNEL PROTECTION

PROTECTIVE EQUIPMENT

EYES:

Always wear eye protection when working with chemicals. Use of chemical goggles or a faceshield are recommended. Do not wear contact lenses when working with chemicals.

SKIN:

Impervious gloves, a rubber apron and rubber boots are recommended.

INHALATION:

If exposure limits are exceeded, or if exposure may occur, use a NIOSH/MSHA respirator approved for your conditions of exposure. Refer to the most recent NIOSH publications concerning chemical hazards, or consult your safety equipment supplier. Respirator protection programs must be in compliance with OSHA requirements in 29 CFR 1910.134. For emergencies, a NIOSH/MSHA approved positive pressure breathing apparatus should be readily available.

VENTILATION:

Adequate ventilation is required to minimize exposure or to maintain exposure levels below OSHA/ ACGIH requirements. Local mechanical ventilation may be required.

ADDITIONAL PROTECTIVE MEASURES:

A safety shower, eye wash fountain, and washing facilities should be readily available to personnel using this product. In case of emergency or when dusting, misting or splashing may occur, wear respiratory protection, eye protection, gloves, helmet, boots and complete protective body covering.

SECTION VII. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY:

Hydrocarbons, organic acids, inorganic acids and metal/metal blends.

HAZARDOUS DECOMPOSITION PRODUCTS:

Contact with some metals will generate explosive hydrogen gas. Contact with water will generate heat and violent splashing and splattering.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VIII. SPILL OR LEAK PROCEDURES

PROCEDURES IF PRODUCT IS SPILLED OR RELEASED:

Evacuate area and keep upwind until fumes have dispersed. Dike spill. Persons not wearing protective equipment and clothing should be restricted from areas of spills or leaks until clean-up has been completed.

WASTE DISPOSAL PROCEDURES:

All federal, state and local regulations, regarding health and pollution must be followed.

SECTION IX. SHIPPING INFORMATION

DOT DESCRIPTION:

CORROSIVE SOLID, N.O.S.,8,UN1759, PGII
(CONTAINS SODIUM HYDROXIDE)

DOT HAZARDOUS MATERIAL LABELS

CORROSIVE

SECTION X. STORAGE INFORMATION

STORAGE: Store in a cool dry place, out of direct sunlight.

HMIS/NFPA

HMIS	Health - 3	**NFPA**	Health - 3
	Flammability - 0		Flammability - 0
	Reactivity - 2		Reactivity - 2
	Personnel Protection - C		Special - Cor

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