

## MATERIAL SAFETY DATA SHEET

Date Prepared: 09-01-01 By Charles D. Werner

SECTION 1 - PRODUCT IDENTIFICATION			
Manufacturer Name:	Fortech Products by Formula Corporation	Emergency Phone No: 1-800-228-5635 ext. 059	
Address:	7901 2nd Ave S., Seattle, WA 98108		
Trade Name:	BRUTE	Product Type: HIGH ALKALINE POWDEREDCLNR	
PRODUCT CODE:	FPKBRUWX		
SECTION 2 - HAZARDOUS INGREDIENTS			
Chemical Name/Common Name:	CAS NO.	PERCENT	TLV (Source)
Sodium Hydroxide LD50 (oral-rat) 500 mg/kg	1310-73-2	20 - 30	
Sodium Carbonate LD50 (oral-rat) 5,600 mg/kg	497-19-8	30 - 40	
Sodium Metasilicate	6834-92-0	10 - 20	none established
NOTE: ACGIH - TLV-TWA for nuisance dust is 10 mg/cu m total dust or 5 mg/cu m respirable dust.			
No toxic chemicals subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present			
SECTION 3 - PHYSICAL DATA			
Boiling Point: (F)	N/A	Specific Gravity: (H2O = 1.0)	N/A pH: 1% = 13.0
Vapor Pressure: (mm/Hg)	N/A	Vapor Density: N/A	
Solubility In Water:	Complete	Evaporation Rate (Vs ether)	N/A
Appearance and Odor:	Crystalline solid, powder, or granules.		
SECTION 4 - FIRE AND EXPLOSION HAZARD DATA			
Flash Point (T.C.C.):	NONE	Flammable Limits	Upper N/A Lower N/A
Extinguishing Media:	This material is not combustible. Use extinguishing media appropriate for surrounding material.		
Special Fire Fighting Procedures:	Fire fighters should wear self-contained breathing apparatus and full protective clothing. Avoid direct contact of this product with material as this can cause violent exothermic reaction. When Sodium Hydroxide contacts some metals (magnesium, aluminum and zinc) can rapidly generate hydrogen, which is explosive.		
SECTION 5 - REACTIVE DATA			
Stability:	Stable		
INCOMPATIBILITY:	This product may be added slowly to water or acid with dilution and constant stirring to avoid a violent reaction. When handling this product, avoid contact with aluminum, tin zinc, and alloys. Do not mix with strong acids. Avoid contact with leather, wool, acids, organic halogen compounds, and organic nitro compounds.		
Hazardous Decomposition Products:	NONE KNOWN		
SECTION 6 - HEALTH HAZARDS			
Threshold Limit Value - Product (See Section 2 for Ingredient TLV)	None Established		
Primary Routes of Exposure:	Eye - yes	Skin-Not Established	Oral-yes Inhalation-yes Other
Signs and Symptoms of Over-exposure (Chronic):	None known		
Signs and Symptoms of Over-exposure (Acute):	Corrosive to all body tissues. Corrosive to skin. Even a small amount in the eye can cause blindness.		
Medical Conditions Aggravated by Over-exposure:	pre-existing skin disorders, impaired respiratory function may more susceptible to effects.		
Carcinogen or Suspect Carcinogen Ingredients:	NTP - NO	IARC - NO	OSHA - NO NONE
SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES			
EYES:	Flush with immediately with lots of running water for at least 15 minutes holding eyelids open. Get medical attention. Washing eyes within several seconds is essential to achieve maximum effectiveness. GET MEDICAL ATTENTION IMMEDIATELY.		
SKIN:	Wash skin with water. PRODUCT IS HIGHLY ALKALINE -- continue to rinse until no longer slippery. Remove contaminated clothing & shoes. Wash before reuse. Discard clothing which cannot be decontaminated.		
INGESTION:	DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, keep victims head below his hips to prevent his breathing vomitus into his lungs. Drink 1 to 8 glasses of water or milk to dilute. Call physician or poison control center immediately, treat symptomatically. Do not give anything by mouth to an unconscious or convulsing person. If vomiting occurs spontaneously, keep airway clear.		
INHALATION:	Get to fresh air. If breathing is difficult, have trained person administer oxygen. If respiration stops, give mouth-to-mouth resuscitation.		
SECTION 8 - SPECIAL PROTECTION INFORMATION			
Respiratory Protection:	Not normally required. Use respirator where dust, mist, or spray may be generated.		
Ventilation Requirements:	Adequate ventilation required. Mechanical required if necessary to maintain exposure below PEL.		
Protective Gloves:	Wearing resistant gloves is required. Natural and butyl rubber have been suggested.		
Eye Protection:	Required. Use goggles plus full face shield to protect against splashing. Contacts should not be worn when working with chemicals. It generally known that contact aggravate eye injuries.		
Other Protective Clothing:	Where gross eye and skin contact may occur use and wear appropriate protective clothing, including resistant clothing, rubber boots with pants on the outside, and rubber gloves. Rubber boots must be worn when using this product as a floor cleaner.		
SECTION 9 - SPILL OR LEAK PROCEDURES			
Steps to be Taken if Released or Spilled:	For small spills, sweep and contain. For large spills, shovel and sweep up and contain. Rinse with water.		
Waste Disposal Methods:	Note that the contaminates of the product must be consider when disposing . Consult appropriate Federal, State and Local regulatory agencies to ascertain proper disposal procedures and comply with them.		
SECTION 10 - STORAGE AND HANDLING INFORMATION			
Do not get in eyes, on skin, on clothing. Avoid breathing dust, mists, or spray. Do not take internally. See above information regarding personal protection. Wash thoroughly after handling or contact - exposure can cause burns which are not immediately painful or visible. Keep container closed. See section above for incompatibility. This product is a class 8 corrosive under DOT regulations.			