MATERIAL SAFETY DATA SHEET

BASTECH 495
pH Modifier

Revision date: 12-8-2010

1.) COMPANY IDENTIFICATION:

BASTECH, LLC
3211 Powers Avenue
Jacksonville, FL 32207

EMERGENCY PHONE NUMBER:	**904-737-1722**
CHEMTREC:	**800-424-9300**

2.) COMPOSITION / INFORMATION ON INGREDIENTS:

Ingredient name	CAS#	Hazard
Water	7732-18-5	
Sodium Salts	Mixture	Corrosive

3.) HAZARDS IDENTIFICATION: ❎ Xi (Irritant)

Physical Appearance and Odor: Clear liquid with bland odor.
Emergency overview: Warning!! Product is a severe eye and skin irritant.
Potential health effects:

Acute eye: Risk of serious damage to eyes. Immediately and thoroughly flush with water. Seek medical attention.

Acute skin: Severe Irritant. Immediately flush with water. Product may aggravate existing dermatitis.

Acute inhalation: Prolonged or repeated overexposure to vapors or mists can cause sever irritation to mucous membranes and upper respiratory tract.

Acute ingestion: Rinse mouth with water. Dilute by giving 1-2 glasses of water. Material is harmful if swallowed. Product may cause irritation of the mouth and digestive tract. Do not induce vomiting.

Chronic effects: This product does not contain any ingredient designated by IARC, NTP, ACGIH, or OSHA as a probably or suspected human carcinogen.

4.) FIRST AID MEASURES:

Eye: Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.
Skin: Immediately wash affected areas with soap and water for at least 5 minutes. If irritation develops, seek medical attention. Clean contaminated clothing and shoes before re-use.
Inhalation: Inhalation is not an expected route of exposure. If respiratory irritation or distress occurs remove victim to fresh air. Seek medical attention if distress or irritation continues.
Ingestion: Rinse mouth and then drink 1-2 glasses of water. Do not induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person.
General advice: Treat symptomatically.

5.) FIRE FIGHTING MEASURES:

Flash point: >300 ° F (PMCC)

Flammability classification: Will not burn

Extinguishing media: Use dry chemical, foam or carbon dioxide. Water jet is not recommended due to frothing.

Fire fighting equipment and special procedures: Fire fighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protection clothing.

Hazardous decomposition products: Oxides of sodium, carbon, & silica.

NFPA Hazard codes: Health 3; Flammability 0; Reactivity 0.

6.) ACCIDENTAL RELEASE:

Personal protective equipment: Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

Spill and clean up procedures: Absorb spill with an inert material (i.e. vermiculite). Sweep or scoop into containers for disposal.

7.) HANDLING AND STORAGE:

Handling: Do not get on skin or in eyes. Do not breathe vapors or mists. As with all chemicals, good industrial hygiene practices should be followed.

Storage: Store in a tightly closed container. Do not store in unlined metal containers as sodium silicate will react with some metals to liberate flammable hydrogen gas.

8.) EXPOSURE CONTROLS:

Eye protection: Wear chemical goggles. Wear face shield if splashing is possible.

Skin protection: Skin contact with this material should be minimized through the use of impervious gloves. Butyl rubber or neoprene is acceptable. Use chemical apron when handling this material.

Respiratory protection: If vapors are present use a NIOSH approved respiratory protection for alkaline vapors.

Other protective equipment and work practices: Eye wash fountain and emergency showers are recommended.

9.) PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Clear, viscous liquid	Odor: Bland
Melting point: ~30°F	Boiling point: 212°F (initial)
Flash point: >300°F (PMCC)	Solubility in water: Soluble
Density @ 70°F: 10.9 ppg	Evaporation rate: >1.0
Viscosity: <100 cps @ 100°F	pH: >13 (neat)

10.) STABILITY AND REACTIVITY:

Chemical stability: This material is stable under normal handling and storage conditions.

Substances to avoid: Avoid strong oxidizers, strong acids, and metals. Sodium salts react with some metals to liberate flammable hydrogen gas.

Hazardous decomposition products: Oxides of sodium, carbon, and silica.

Hazardous polymerization: Will not occur.

11.) TOXICOLOGICAL INFORMATION:

Acute toxicity: Sodium silicate
 Oral: LD50 Rat: >1500 mg/kg
  Sodium Hydroxide
 Oral LD 50 Rabbit: 400 mg/Kg

12.) ECOLOGICAL INFORMATION:

Ecotoxicological information:
 LC 50, 96 hour, Daphnia magna = ~250 ppm.
 LC 50, 96 hour, Mosquito fish = 125 mg/L

13.) DISPOSAL CONSIDERATIONS:

Waste disposal: Dispose of in accordance with national, state, and local regulations. Waste material is a RCRA Hazardous waste because it has a pH greater than 12.5 as defined in EPA rules at 40 CFR 261.22 (a)(1).

Container disposal: Dispose of in a licensed facility. Recommend crushing or other means to prevent unauthorized use of empty containers.

14.) TRANSPORTATION INFORMATION:

US Department of Transportation shipping name: Corrosive Liquid. NOS

Hazard class: 8 (corrosive)

Packing group: II

ID number: UN 1824

15.) REGULATORY INFORMATION:

Inventory status:

US / TSCA   Yes
Canada / DSL   Yes

SARA hazard categories:

Section 311/312: Immediate Acute Health Hazard.

Section 313: The Threshold Planning Quantity for this product is 10,000 lbs.

State regulations:

CA Prop. 65: This product does not contain components that are regulated by California Proposition 65.

16.) OTHER:

HMIS rating:

Health: 3   Flammability: 0   Reactivity: 0

Disclaimer:
The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate