Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name: Neutralize™ OH⁻
Product Codes: BUI/TANKCLEANOH

Hazardous Material Information System III:

Health	3
Fire Hazard	0
Physical Hazard	0
Personal Protection	X

Manufacturer Information:
Becker Underwood, Inc.
801 Dayton Avenue
Ames, Iowa 50010
Information Phone: (515) 232-5907
Emergency Phone: Chemtrec (800) 424-9300

Section 2. Hazards Identification

Emergency Overview: Corrosive. Causes severe eye damage. Causes skin burns. Inhalation of dust may cause mucous membrane and respiratory irritation and burns with possible pulmonary edema. May be fatal if swallowed.

Potential Acute Health Effects:

Eyes: Corrosive. Dust causes severe irritation or burns with redness, tearing and stinging of the eyes. May cause permanent eye damage.

Skin: Causes severe irritation and burns with scarring.

Inhalation: Inhalation of dust may cause severe irritation of the nose throat and upper respiratory tract. Severe exposures may cause pulmonary edema and death.

Ingestion: Ingestion may cause corrosion of the mucous membranes, esophagus and stomach with shock and possible perforation and peritonitis. May be fatal.

Section 3. Composition/Information on Ingredients

Component	CAS Number
Sodium Pyrophosphate	7722-88-5
Surfactants	Proprietary
Tetrasodium EDTA	64-02-8
Sodium Hydroxide	1310-73-2

The exact composition of this material is a trade secret. Contains no other components or impurities which will influence the classification with regard to human and environmental risk assessment.

Section 4. First Aid Measures

Eye Contact: Immediately flush victim's eyes with large quantities of water for at least 30 minutes, holding the eyelids apart. Get immediate medical attention.

Skin Contact: Immediately flush skin with plenty of water for 30 minutes while removing contaminated clothing and shoes. Get immediate medical attention. Launder clothing before re-use .

Inhalation: Immediately remove victim to fresh air. If breathing is difficult have qualified personnel administer oxygen. If breathing has stopped, administer artificial respiration. Get immediate medical attention.

Ingestion: Get immediate medical attention. If conscious, rinse mouth out with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Section 5. Fire Fighting Measures

Flammability of Product: Not flammable

Fire Fighting Media: Use media appropriate for surrounding fire. Do not use water directly on product. Cool fire exposed containers and structures with water. Adding water to caustic pellets will generate large amounts of heat.

Protective Clothing: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing.

Fire/Explosion Hazards: Reacts with most metals to form flammable hydrogen gas.

Section 6. Accidental Release Measures

Clean-Up Procedures: Evacuate spill area and keep unprotected personnel away. Ventilate area. Wear appropriate protective clothing as described in Section 8. Shovel or scoop up and place into an appropriate container for disposal. Residuals can be diluted with water and neutralized with a dilute acetic acid solution.

Spills and Leaks: Prevent spill from entering sewers and water courses. Report releases as required by local, state and federal authorities.

Section 7. Handling and Storage

Handling: Prevent contact with the eyes, skin and clothing. Do not breathe dusts. Wear protective clothing and equipment as described in Section 8. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use.

When diluting, always add product to cool water while stirring. DO NOT add product to water. Do not dilute with hot water. Adding product to water or using hot water will generate large amounts of heat which may cause boiling and splattering.

Do not reuse containers. Empty containers retain product residues can be hazardous. Follow all MSDS precautions when handling empty containers.

Storage: Store in a cool, dry, well ventilated area away from heat and incompatible materials. Protect from physical damage. Keep product dry.

Section 8. Exposure Control/Personal Protection

Occupational Exposure Limits

Component	OSHA PEL	ACGIH TLV	Weight Percentage
Sodium Pyrophosphate	None Established	None Established	Proprietary
Surfactant mix	None Established	None Established	Proprietary
Tetrasodium EDTA	None Established	None Established	Proprietary
Sodium Hydroxide	2 mg/m^3	2 mg/m^3 Ceiling	< 20 %

Engineering controls: Use mechanical ventilation or other engineering controls to keep airborne levels below exposure limits.

Personal Protection:

Eyes: Chemical safety goggles and faceshield required.

Body: Impervious coveralls, apron and boots as needed to prevent contact..

Hands: Wear impervious gloves such as butyl rubber or neoprene.

Respiratory: In operations where the occupational exposure limits are exceeded, a NIOSH approved respirator with dust/mist cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

Other: A safety shower and eye wash should be available in the immediate work area.

Section 9. Physical and Chemical Properties

Odor	Slight	**Vapor Density**	Not applicable
Color	White	**Evaporation Rate**	Not applicable
Physical state	Powder	**Bulk Density**	No information available
pH	11.5 – 12.5 (0.5% in DI water)	**Solubility**	Soluble in water
Melting/Freezing Point	Not applicable	**Vapor Pressure**	Not applicable

Section 10. Stability and Reactivity

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

Hazardous Decomposition: Reacts with most common metals to form flammable hydrogen gas. Thermal decomposition may produce carbon, nitrogen, sodium and phosphorus oxides, ammonia, aldehydes, ketones and hydrogen chloride.

Hazardous Polymerization: Will not occur.

Incompatibility (Materials to Avoid): Strong oxidizing agents and acids.

Section 11. Toxicological Information

Chronic Toxicity: Chronic skin exposure to dilute solutions may cause dermatitis.

Mutagenic Effects: None known

Teratogenic Effects: None known

Developmental Toxicity: Tetrasodium EDTA has been reported to cause birth defects in laboratory animals only at levels that were toxic to the mother.

Acute Effects on Humans: Corrosive. Causes severe irritation or burns. May cause permanent eye damage and scaring of the skin. Inhalation of mists may cause severe irritation of the nose throat and upper respiratory tract. Severe exposures may cause pulmonary edema and death. Ingestion may cause corrosion of the mucous membranes, esophagus and stomach with shock and possible perforation and peritonitis. May be fatal.

Sensitization: None known.

Carcinogenic Effects: None of the components of this product present at 0.1% or greater are listed as a carcinogen by IARC, ACGIH, NTP or OSHA.

Existing Medical Conditions Aggravated By Exposure: Employees with pre-existing eye, skin and respiratory disease may be at increased risk from exposure.

Section 12. Ecological Information

Ecotoxicity: No specific data available. May be harmful to aquatic organisms.

Environmental Fate: No information available.

Section 13. Disposal Considerations

EPA Waste Number: D002
Treatment: Dispose of according to all federal, state/provincial and local environmental regulations.

Section 14. Transport Information

D.O.T. HAZMAT Shipping Name: **Hazard Class** **UN Identification Number** **Packing Group**	Sodium Hydroxide Solid Mixture 8 1823 PGII
IMO/IMDG Classification:	UN1823, Sodium Hydroxide Solid Mixture, 8, PGII, Marine Pollutant (Alkylbenzene sulphonates, branched and straight chain)
IATA Classification:	UN1823, Sodium Hydroxide Solid Mixture, 8, PGII, Marine Pollutant (Alkylbenzene sulphonates, branched and straight chain)

Section 15. Regulatory Information

Hazardous Material Information System III:

Health	3
Fire Hazard	0
Physical Hazard	0
Personal Protection	X

US Federal Regulations:
Product Information: This product is considered hazardous.
SARA 311/312:

Acute: **Yes**
Chronic: **No**
Fire: **No**
Pressure: **No**
Reactive: **Yes**

SARA 313: The following reportable quantities of toxic chemical(s) subject to the reporting requirements of Section 313 of SARA Title III and of 40 CFR 372 are present:

CHEMICAL	CAS NUMBER	WEIGHT PERCENT
None		

CERCLA RQ This product has a Reportable Quantity (RQ) of 5,000 lbs. based on the RQ for Sodium Hydroxide of 1,000 lbs. Releases above the RQ must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations..

CAA This product contains the following chemicals listed under provisions of the EPA Clean Air Act:
None

Regulatory Listings:
United States (TSCA): All ingredients are listed or exempt from the requirement.

Section 16. Other Information

Revision:	02
Revision number:	January 19, 2010
Supersedes:	September 25, 2009
Written by:	GS

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