

# Material Safety Data Sheet

Product Trade Name: **CHEM ALUM ETCH 400**

ID: H299

## \*\*\* Section 1 - Chemical Product and Company Identification \*\*\*

Product Trade Name: **CHEM ALUM ETCH 400**

### Manufacturer Information

**Heatbath Corporation**

P.O. Box 51048

Indian Orchard, MA 01151-5048

Contact Phone: (413) 452-2000

8:00 AM – 5:00 PM

CHEMTREC Emergency Phone: (800) 424-9300  
24 Hours

## \*\*\* Section 2 - Composition / Information on Ingredients \*\*\*

CAS #	Component	Percent
001310-73-2	Sodium hydroxide	>60
000527-07-1	Sodium gluconate	1-10

### **Additional Information:**

This product is considered hazardous as defined by 29 CFR 1910.1200 (Hazard Communication).

## \*\*\* Section 3 - Hazards Identification \*\*\*

### **Emergency Overview:**

DANGER -- CORROSIVE! Powder. Contact with this material will cause burns to the skin, eyes and mucous membranes.

### **Eye Contact:**

This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness.

### **Skin Contact:**

This product is corrosive to the skin. Contact with the skin or mucous membranes may cause severe irritation and burns.

### **Skin Absorption:**

No information available for the product.

### **Ingestion:**

This product will cause irritation or burns to the throat, esophagus, and gastrointestinal tract if it is swallowed.

### **Inhalation:**

Inhalation of dusts of this product may cause severe irritation and burns to the respiratory tract.

### **Medical Conditions Aggravated by Exposure:**

Pre-existing eye, skin, gastrointestinal and respiratory disorders may be aggravated by exposure.

## \*\*\* Section 4 - First Aid Measures \*\*\*

### **Eye Contact:**

If this chemical contacts the eyes, immediately wash the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately. Do not wear contact lenses when working with this chemical.

### **Skin Contact:**

If this chemical contacts the skin, promptly wash the contaminated skin with water. If this chemical penetrates the clothing, promptly remove the clothing and wash the skin with water. If irritation persists or develops after washing, get medical attention.

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**Ingestion:**

If this chemical has been swallowed, get medical attention immediately. Give victim several glasses of water to drink. Vomiting may occur spontaneously; do not induce vomiting. Do not give anything by mouth to an unconscious person.

**Inhalation:**

If a person breathes large amounts of this chemical, move the exposed person to fresh air at once. Other measures are usually unnecessary. If breathing difficulty persists or develops, get prompt medical attention.

**First Aid: Notes to Physician**

No additional information is available.

**\*\*\* Section 5 - Fire Fighting Measures \*\*\***

<b>Flash Point:</b>	> 212 °F	<b>Upper Flammable Limit (UFL):</b>	Not applicable
<b>Flammability Classification:</b>	Nonflammable	<b>Lower Flammable Limit (LFL):</b>	Not applicable

**Fire & Explosion Hazards:**

None expected.

**Decomposition Products:**

Irritating and toxic gases or fumes may be released during a fire.

**Extinguishing Media:**

Use any media suitable for the surrounding fires.

**Fire-Fighting Instructions:**

Firefighters: Wear full protective clothing including self-contained breathing apparatus. Properly decontaminate all equipment after use.

**\*\*\* Section 6 - Accidental Release Measures \*\*\***

**Containment and Clean up procedures must be conducted in accordance with all local, state, and federal regulations.**

**Containment Procedures:**

Stop the flow of material, if this can be done without risk. Wear appropriate protective equipment and clothing during clean up.

**Clean-Up Procedures:**

Sweep up spill and transfer material into appropriate container(s) for disposal. Dispose of collected material according to local, state, and federal regulations.

**\*\*\* Section 7 - Handling and Storage \*\*\***

**Handling Procedures:**

Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid contact with eyes, skin and clothing. Avoid breathing dusts, vapors or mists of this product. This product is for industrial use only. Use with adequate ventilation. Do not take internally.

**Storage Procedures:**

Keep container tightly closed when not in use. Store in a cool, well-ventilated area away from incompatible materials. (For incompatible materials, see Section 10.)

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## \*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\*

### Exposure Guidelines:

#### A: General Product Information

Follow all applicable exposure limits.

#### B: Component Exposure Limits

##### Sodium hydroxide (001310-73-2)

ACGIH: C 2 mg/m<sup>3</sup>

OSHA: C 2 mg/m<sup>3</sup>

NIOSH: C 2 mg/m<sup>3</sup>

### Engineering Controls:

Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product.

## PERSONAL PROTECTIVE EQUIPMENT

### Eyes/Face Protective Equipment:

Wear safety glasses; chemical goggles (if splashing is possible).

### Skin Protection:

Use impervious gloves. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron and boots are recommended.

### Respiratory Protection:

If ventilation is not sufficient to effectively prevent buildup of dust, appropriate NIOSH/MSHA respiratory protection must be provided.

### Personal Protective Equipment:

Eyewash fountains and emergency showers are required.

## \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

<b>Physical State:</b> Powder	<b>Appearance:</b> White
<b>Odor:</b> Surfactant	<b>Vapor Pressure:</b> Not applicable
<b>Vapor Density:</b> Not applicable	<b>Boiling Point:</b> Not applicable
<b>Specific Gravity:</b> Not applicable	<b>pH:</b> 13.9
<b>Viscosity:</b> Not applicable	<b>VOC:</b> Not applicable
<b>Solubility Water:</b> Appreciable	<b>Evaporation Rate:</b> Not applicable
<b>Percent Volatile:</b> Not applicable	<b>Percent Solids:</b> Not determined

## \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

### Chemical Stability:

Stable under normal conditions.

### Conditions to Avoid:

Keep away from incompatible materials.

### Incompatibility:

Avoid contact with organic materials, oils, greases, and any oxidizable materials. This product may react with strong acids. Adding water to this product may cause localized overheating and splattering.

### Decomposition Products:

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

### Hazardous Polymerization:

Will not occur.

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## \*\*\* Section 11 - Toxicological Information \*\*\*

### Acute Toxicity:

#### A: General Product Information

No information available for the product.

#### B: Component Analysis - LD50/LC50

No LD50/LC50's are available for this product's components.

### Carcinogenicity:

#### A: General Product Information

No information available for the product.

#### B: Component Carcinogenicity

None of this product's components are on IARC or NTP lists.

**Chronic Toxicity:** No information available.

**Epidemiology:** No information available for the product.

**Neurotoxicity:** No information available for the product.

**Mutagenicity:** No information available for the product.

**Teratogenicity:** No information available for the product.

### Other Toxicological Information:

None available.

## \*\*\* Section 12 - Ecological Information \*\*\*

### Ecotoxicity:

#### A: General Product Information

No data available for this product.

#### B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

### Environmental Fate:

No data available for this product.

## \*\*\* Section 13 - Disposal Considerations \*\*\*

Wastes must be tested using methods described in 40 CFR Part 261. It is the generator's responsibly to determine if the waste meets applicable definitions of hazardous wastes. State and local regulations may differ from Federal disposal regulations. Dispose of waste material according to Local, State, Federal and Provincial Environmental Regulations.

## \*\*\* Section 14 - Transportation Information \*\*\*

### US DOT Information

Proper Shipping Name	Sodium Hydroxide, Solid, Mixture
Hazard Class	8
UN / NA Number	UN1823
Packing Group	II
Product RQ (lb)	--

## \*\*\* Section 15 - Regulatory Information \*\*\*

### US Federal Regulations

#### A: General Product Information

No additional information available.

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## B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

### Sodium hydroxide (001310-73-2)

CERCLA: final RQ = 1000 pounds (454 kg)

SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No Reactive: No

## State Regulations

### A: General Product Information

No additional information available.

### B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Sodium hydroxide	001310-73-2	Yes	Yes	Yes	Yes	Yes	Yes

## Other Regulations

### A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

### B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Sodium hydroxide	001310-73-2	Yes	Yes	Yes
Sodium gluconate	000527-07-1	Yes	Yes	Yes

### C: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Sodium hydroxide	001310-73-2	1% item 1442 (998)

## \*\*\* Section 16 - Other Information \*\*\*

**NFPA Ratings:** Health: 3 Fire: 0 Reactivity: 1 Other:  
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**HMIS Ratings:** Health: 3 Fire: 0 Reactivity: 1 Personal Protection:  
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

### MSDS Change History:

3/26/02: Rev.N/A - Superseded 9/26/01; MSDS as issued by Chemtech Finishing Systems.  
1/18/05: Chemtech Finishing Systems acquired by Heatbath Corporation.  
4/05/05: Rev.03; Chemtech MSDS issued under new manufacturer: Heatbath Corporation.  
Sec.1 - Manufacturer Information Updated  
Sec.16 - MSDS Change History section added  
Sec.16 - Contact Information Updated

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**Key/Legend:**

ACGIH = American Conference of Governmental Industrial Hygienists	NFPA = National Fire Protection Association
CERCLA = Comprehensive Environmental Response, Compensation and Liability Act	NIOSH = National Institute for Occupational Safety and Health
EPA = Environmental Protection Agency	NTP = National Toxicology Program
HMIS = Hazardous Material Identification System	OSHA = Occupational Safety and Health Administration
IARC = International Agency for Research on Cancer	SARA = Superfund Amendments and Reauthorization Act
MSHA = Mine Safety and Health Administration	TSCA = Toxic Substance Control Act

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Heatbath Corporation bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

**Contact:** Jeff Szotek  
**Contact Phone:** (413) 452-2000

This is the end of MSDS for CHEM ALUM ETCH 400.