



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** Super BPA Slurry  
**Version #** 02  
**Issue date** 20-November-2012  
**Revision date** 15-February-2013  
**Supersedes date** 14-February-2013  
**CAS #** Mixture  
**Manufacturer information** CETCO  
Lining Technologies Group  
2870 Forbs Avenue  
Hoffman Estates 60192  
United States  
safetydata@amcol.com  
<http://www.cetco.com/LT/>

## 2. Hazards Identification

**Emergency overview** Harmful by inhalation, in contact with skin and if swallowed.  
**OSHA regulatory status** This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).  
**Potential health effects**  
**Routes of exposure** Inhalation. Ingestion. Skin contact. Eye contact.  
**Eyes** Causes eye burns. Risk of serious damage to eyes. Do not get this material in contact with eyes.  
**Skin** Causes skin burns. Do not get this material in contact with skin.  
**Inhalation** Causes burns. Prolonged inhalation may be harmful. Do not breathe dust/fume/gas/mist/vapors/spray.  
**Ingestion** Components of the product may be absorbed into the body by ingestion. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract. Do not ingest.  
**Target organs** Eyes. Respiratory system. Skin.  
**Potential environmental effects** Components of this product are hazardous to aquatic life. May cause long-term adverse effects in the environment.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
ACRYLIC ACID	79-10-7	40 - 60
SODIUM HYDROXIDE	1310-73-2	10 - 20
Other components below reportable levels		20 - 40

## 4. First Aid Measures

**First aid procedures**  
**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.  
**Skin contact** Remove and isolate contaminated clothing and shoes. Immediately flush skin with plenty of water. Get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.  
**Inhalation** Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or Poison Control Center immediately.

**Ingestion**

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Never give anything by mouth to a victim who is unconscious or is having convulsions. Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

**Notes to physician**

In case of shortness of breath, give oxygen. Keep victim warm.

**General advice**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Immediate medical attention is required. In case of shortness of breath, give oxygen. Keep victim warm.

**5. Fire Fighting Measures****Flammable properties**

The product is not flammable. No unusual fire or explosion hazards noted.

**Extinguishing media****Suitable extinguishing media**

Water Fog. Carbon dioxide (CO2). Alcohol resistant foam. Powder.

**Unsuitable extinguishing media**

Water. Do not use water jet as an extinguisher, as this will spread the fire.

**Fire fighting equipment/instructions**

Not available.

**Hazardous combustion products**

May include oxides of nitrogen.

**6. Accidental Release Measures****Personal precautions**

Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

**Methods for containment**

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use water spray to reduce vapors or divert vapor cloud drift. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

**Methods for cleaning up**

Should not be released into the environment. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.

**7. Handling and Storage****Handling**

Do not breathe dust/fume/gas/mist/vapors/spray. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not get this material on clothing. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Avoid release to the environment. Handle and open container with care.

**Storage**

Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

**8. Exposure Controls / Personal Protection****Occupational exposure limits****US. ACGIH Threshold Limit Values****Components****Type****Value**

ACRYLIC ACID (79-10-7)

TWA

2 ppm

SODIUM HYDROXIDE  
(1310-73-2)

Ceiling

2 mg/m3

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value
SODIUM HYDROXIDE (1310-73-2)	PEL	2 mg/m <sup>3</sup>

**Exposure guidelines****US ACGIH Threshold Limit Values: Skin designation**

ACRYLIC ACID (CAS 79-10-7)

Can be absorbed through the skin.

**Engineering controls**

Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment****Eye / face protection**

Do not get in eyes. Chemical goggles are recommended. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**Skin protection**

Do not get this material in contact with skin. Do not get this material on clothing. Wear chemical protective equipment that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Chemical resistant gloves.

**Respiratory protection**

Do not breathe dust/fume/gas/mist/vapors/spray. Wear positive pressure self-contained breathing apparatus (SCBA).

**General hygiene considerations**

When using, do not eat, drink or smoke. Do not get in eyes. Do not get this material in contact with skin. Do not get this material on clothing. Handle in accordance with good industrial hygiene and safety practice.

**9. Physical & Chemical Properties**

<b>Appearance</b>	Liquid.
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid. Slurry.
<b>Color</b>	Light grey.
<b>Odor</b>	Vinegar-like.
<b>Odor threshold</b>	Not available.
<b>pH</b>	5.6 - 5.8
<b>Vapor density</b>	Not available.
<b>Boiling point</b>	212 °F (100 °C) estimated
<b>Melting point/Freezing point</b>	32 °F (0 °C) estimated
<b>Solubility (water)</b>	Soluble
<b>Specific gravity</b>	1.35 estimated
<b>Relative density</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Viscosity</b>	3000 cP
<b>Other data</b>	
<b>Density</b>	1.35 g/cm <sup>3</sup> estimated

**10. Chemical Stability & Reactivity Information**

<b>Chemical stability</b>	risk of violent reaction
<b>Conditions to avoid</b>	Avoid temperatures above 77°F (25°C). Polymerization can occur. Avoid frost.
<b>Incompatible materials</b>	Amines.
<b>Hazardous decomposition products</b>	Nitrogen oxides (NO <sub>x</sub> ).
<b>Possibility of hazardous reactions</b>	Hazardous polymerization can occur.

## 11. Toxicological Information

### Toxicological data

Components	Species	Test Results
ACRYLIC ACID (79-10-7)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Rat	10600 mg/l/4h 1200 mg/l, 4 Hours
<i>Oral</i>		
LD50	Mouse	2400 mg/kg
	Rat	33.5 mg/kg 2.5 g/kg
<i>Other</i>		
LD50	Mouse	1590 mg/kg 0.016 ml/kg
	Rabbit	290 mg/kg
	Rat	24 mg/kg
SODIUM HYDROXIDE (1310-73-2)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	1350 mg/kg
<i>Other</i>		
LD50	Mouse	40 mg/kg

\* Estimates for product may be based on additional component data not shown.

<b>Acute effects</b>	Causes burns.
<b>Local effects</b>	Harmful by inhalation, in contact with skin and if swallowed.
<b>Chronic effects</b>	Hazardous by OSHA criteria. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>ACGIH Carcinogens</b>	
ACRYLIC ACID (CAS 79-10-7)	A4 Not classifiable as a human carcinogen.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	
ACRYLIC ACID (CAS 79-10-7)	3 Not classifiable as to carcinogenicity to humans.
<b>Skin corrosion/irritation</b>	Hazardous by OSHA criteria.

## 12. Ecological Information

### Ecotoxicological data

Components	Species	Test Results	
ACRYLIC ACID (79-10-7)			
Crustacea	EC50	Daphnia	47 mg/L, 48 Hours
Fish	LC50	Fish	222 mg/L, 96 Hours
SODIUM HYDROXIDE (1310-73-2)			
Fish	LC50	Fish	45.4 mg/L, 96 Hours
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	34.59 - 47.13 mg/l, 48 hours

\* Estimates for product may be based on additional component data not shown.

<b>Ecotoxicity</b>	Components of this product are hazardous to aquatic life.
<b>Environmental effects</b>	Harmful to aquatic organisms. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
<b>Persistence and degradability</b>	Not available.

Material name: Super BPA Slurry

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MSDS US

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## Bioaccumulation / Accumulation

### Bioaccumulative potential

#### Octanol/water partition coefficient log Kow

ACRYLIC ACID 0.35

### Partition coefficient

ACRYLIC ACID 0.35

**Mobility in environmental media** This product is miscible in water.

## 13. Disposal Considerations

**Waste codes** D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

### US RCRA Hazardous Waste U List: Reference

ACRYLIC ACID (CAS 79-10-7) U008

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.

**Waste from residues / unused products** Not applicable.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport Information

### DOT

#### Basic shipping requirements:

**UN number** UN1760  
**Proper shipping name** Corrosive liquids, n.o.s. (ACRYLIC ACID SODIUM HYDROXIDE)  
**Hazard class** 8  
**Packing group** III  
**Environmental hazards**  
**Marine pollutant** Yes  
**Special precautions** DOT Regulated Marine Pollutant. IMDG Regulated Marine Pollutant.  
**Additional information:**  
**Special provisions** IB3, T7, TP1, TP28  
**Packaging exceptions** 154  
**Packaging non bulk** 203  
**Packaging bulk** 241  
**ERG number** 132

### IATA

#### Basic shipping requirements:

**Proper shipping name** Corrosive liquid, n.o.s. (ACRYLIC ACID SODIUM HYDROXIDE)  
**Hazard class** 8  
**UN number** 1760  
**Packing group** III  
**Additional information:**  
**ERG code** 8L

### IMDG

#### Basic shipping requirements:

**Proper shipping name** CORROSIVE LIQUID, N.O.S. (ACRYLIC ACID SODIUM HYDROXIDE), MARINE POLLUTANT  
**Hazard class** 8  
**UN number** 1760  
**Packing group** III  
**EmS No.** F-A, S-B  
**Marine pollutant** Yes



DOT



IATA



IMDG

## 15. Regulatory Information

### US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

### Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2))

Not regulated.

### DEA Essential Chemical Code Number

Not regulated.

### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

### DEA Exempt Chemical Mixtures Code Number

Not regulated.

### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

ACRYLIC ACID (CAS 79-10-7) 1.0 %

### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

ACRYLIC ACID (CAS 79-10-7) Listed.

### CERCLA (Superfund) reportable quantity

ACRYLIC ACID: 5000.0000  
SODIUM HYDROXIDE: 1000.0000

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories**  
Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** No

### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**State regulations**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**US - New Jersey RTK - Substances: Listed substance**

ACRYLIC ACID (CAS 79-10-7) Listed.

SODIUM HYDROXIDE (CAS 1310-73-2) Listed.

**US - Pennsylvania RTK - Hazardous Substances: Listed substance**

ACRYLIC ACID (CAS 79-10-7) Listed.

SODIUM HYDROXIDE (CAS 1310-73-2) Listed.

**16. Other Information****Further information**

HMIS® is a registered trade and service mark of the NPCA.

**HMIS® ratings**

Health: 2  
Flammability: 0  
Physical hazard: 0

**NFPA ratings**

Health: 2  
Flammability: 0  
Instability: 0

**Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available.

**This data sheet contains changes from the previous version in section(s):**

Physical & Chemical Properties: Multiple Properties  
Chemical Stability & Reactivity Information: Chemical stability  
Chemical Stability & Reactivity Information: Conditions to avoid  
Chemical Stability & Reactivity Information: Possibility of hazardous reactions