



PENETONE CBO1A

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Date Prepared: March 1, 2017
MSDS No.: 2556

SECTION 1: IDENTIFICATION

Product name: PENETONE CBO1A
Recommended use: Heavy duty paper mill detergent
Physical Description: Viscous light amber liquid with mild odor
Generic Ingredients: Water, potassium and sodium hydroxides, alkyl alkanolamine, surfactants and sequestrants
Manufacturer: Penetone Corporation
 700 Gotham Parkway
 Carlstadt, NJ 07072
 800-631-1652 or 201-567-3000
Business Contact: Customer Service
 800-631-1652 x2602 or 2272
 Product Safety
 800-631-1652 x2211 or 2257

Emergency Phone Numbers: PENETONE 201-567-3000 CHEMTREC 800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

<p>Health: Skin corrosion: 1B Eye damage: 1 Aspiration hazard: 1</p>	<p>Acute toxicity - oral: 4 Physical: Corrosive to metals: 1</p>
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DANGER!

Causes Severe Skin Burns and Eye Damage.
 May Be Fatal If Swallowed and Enters Airways.
 Harmful If Swallowed.
 May Be Corrosive to Metals.



<p>Precautionary Statements:</p>	
<p><u>Prevention:</u> Do not breathe the mists if inhalable mists occur during use. Wear protective gloves, clothing, eye protection, and face protection. Do not eat, drink, or smoke when using this product. Wash hands and exposed skin thoroughly after handling. Keep only in original container</p> <p><u>Response:</u> <i>If swallowed:</i> Rinse mouth. Do NOT induce vomiting. Call a poison center, doctor, emergency room, or 911 if you feel unwell. <i>If on skin or hair:</i> Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. <i>If in eyes:</i> Rinse cautiously with water for several</p>	<p>minutes. Remove contact lenses, if present and easy to do. Continue rinsing. <i>If inhaled:</i> Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center, doctor, emergency room, or 911. Absorb spillage to prevent material damage.</p> <p><u>Storage:</u> Store locked up. Store in corrosive resistant container, plastic (HDPE) is recommended, or container with a resistant inner liner.</p> <p><u>Disposal:</u> Dispose of contents/container in accordance with local, regional, and national regulations (see Sections 13 and 15 of SDS for disposal and reporting requirements).</p>

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Concentration Wt% (1)
Water	7732-18-5	40-60



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Sodium hydroxide	1310-73-2	20-40
Potassium hydroxide	1310-58-3	10-25
Diethylene trimaine penta(methylene phosphonic acid), septasodium salt	22042-96-2	1-5
N-Methylethanolamine	109-83-1	1-5
C ₆₋₁₂ alkylmono & oligoglucopyranosides	113976-90-2	<1

(1) Exact percentages being withheld under trade secret provision of OSHA HCS 1910.1200(i)

SECTION 4: FIRST-AID MEASURES**General Description of Symptoms & First-Aid Measures**

Most likely work-place exposure routes will be *skin contact* or *inhalation*.

For *skin contact*, a tingling or burning sensation might be felt almost immediately or soon after exposure. Slight reddening or minor irritation could also develop if product is not quickly washed off.

Inhalation exposure may produce varied effects, particularly if exposure occurs above the recommended workplace exposure limits (see SECTION 8). Typical symptoms could include coughing, sneezing, and a tingling or burning sensation in the nose, throat, and lungs.

Note: This product is very corrosive to all tissue, and immediate action is required to avoid serious injury or permanent damage to exposed tissue.

Eyes

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center, doctor, physician or other competent medical authority for medical advice. Penetone recommends that after any eye exposure a physician be seen immediately.

Ingestion

If swallowed: Rinse mouth. **DO NOT INDUCE VOMITING.** Immediately call a poison center, doctor, physician or other competent medical authority for medical advice.

Inhalation

If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a local Poison Control Center, physician, or other competent medical authority for medical advice.

Skin

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. A mild soap may be used to wash skin. Wash contaminated clothing before reuse. Immediately call a local Poison Control Center, doctor, physician or other competent medical authority for medical advice.

Special Treatment / Other

Possible or probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5: FIRE FIGHTING MEASURES**Flammable Properties**

Classification: Non-flammable

Flash Point: None-to-boil

Autoignition Temperature: Not applicable

Lower Flammable Limit: Not applicable **Upper Flammable Limit:** Not applicable

Specific Hazards

Product is water based and presents no unusual fire hazards. Product may react with chemically reactive metals such as aluminum, zinc, magnesium, copper, etc. to release hydrogen gas which can form explosive mixtures in air.



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Extinguishing Media

Use extinguishing agents appropriate for controlling surrounding fire.

Unsuitable: None.

Protection & Precautions for Firefighters

Protective Equipment & Clothing: Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters protective clothing will only provide limited protection.

Fire Fighting Guidance: Cool containers with flooding quantities of water until well after fire is out. Move containers from fire area if you can do it safely. Dike fire control water for later disposal; do not scatter material. Containers can expand and explode under fire conditions due to vapor buildup. Always stay away from containers engulfed in fire.

Hazardous Combustion Products: Smoke, fumes, and oxides of carbon and nitrogen when taken to dryness.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Land Spill

Absorb spillage to prevent material damage. Stop leak if you can do it safely. For large spills, dike and pump into properly labeled containers for reclamation or disposal. For small spill, soak up with absorbent material and place in properly labeled containers for disposal. Neutralize residue with dilute acid and follow with a liberal covering of sodium bicarbonate or other acceptable drying agent.

Water Spill

This is a water based product and will completely mix/dissolve in water making recovery difficult. This product is caustic and will raise the pH of surface waters. Check with local environmental regulatory agencies for reporting requirements.

See SECTION 8 for EXPOSURE CONTROLS and PERSONAL PROTECTION.

SECTION 7: HANDLING & STORAGE

Handling

Avoid contact with eyes, skin and clothing. After handling, always wash hands thoroughly with soap and water. Avoid personal contact with any residue. Do not cut, weld, or reuse empty container.

Storage

Store locked up. Store in corrosive resistant container. Plastic is recommended. If storing in a metal container, it must be NON-ALUMINUM with a resistant inner liner (NOTE: flammable hydrogen gas may be generated if aluminum container and/or aluminum fittings are used). If secondary containers are used, plastic is recommended. Keep container tightly closed when not in use. Do not store near strong acids. Do not store in direct sunlight. Avoid storing above 120°F (49°C).

SECTION 8: EXPOSURE CONTROLS and PERSONAL PROTECTION

Engineering Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

Personal Protection

Inhalation A respiratory protection program that meets OSHA's 29 CFR 1910.134 or ANSI Z88.2 requirements must be followed whenever workplace conditions warrant respirator use. Use of an organic vapor mask or respirator is



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recommended.

Skin Wear chemical resistant gloves such as: rubber, nitrile, neoprene, or latex when skin contact is possible. Protective clothing including gloves, apron, sleeves, boots, head and face protection should be worn depending on how the product is used. PPE should be cleaned thoroughly after each use.

Eyes Penetone recommends always wearing safety glasses as a minimum in any workplace. Conditions may warrant the use of chemical goggles and possibly a face shield. Consult your standard operating procedure or safety professional for advice. Use protective eye and face devices that comply with ANSI Z87.1-1987.

Additional Remarks

Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use.

Occupational Exposure Limits

<u>Component Name</u>	<u>Source</u>	<u>Value</u>	<u>Type</u>	<u>Notation</u>
Potassium hydroxide	ACGIH	2 mg/m ³	Ceiling	
	NIOSH	2 mg/m ³	Ceiling	
Sodium hydroxide	ACGIH	2 mg/m ³	Ceiling	
	NIOSH	2 mg/m ³	Ceiling	
	OSHA	2 mg/m ³	TWA	

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance: viscous light amber liquid
Odor: mild
Odor Threshold: not determined
pH: >13
Melting Point / Freezing: about 25°F
Boiling Point / Boiling Point Range: about 212°F
Flash Point: not applicable
Evaporation Rate: equal to water
Flammability: not applicable
Lower Flammable Limit: not applicable
Upper Flammable Limit: not applicable
Explosive Properties: not applicable
Vapor Pressure: equal to water
Relative Vapor Density: equal to water
Relative Density: 1.39
Solubility (Water): soluble in water
Partition Coefficient (K_{ow}): not determined
Auto-ignition temperature: not applicable
Decomposition temperature: not applicable
Viscosity: not determined

SECTION 10: STABILITY & REACTIVITY

Reactivity

Product will react with acids, giving off heat.



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Chemical Stability

Stable.

Hazardous Reactions

Mixing with acids will give off heat and may cause splattering. Will react with some metals (see below) forming flammable hydrogen gas. Carbon monoxide gas may form upon contact with reducing sugars, food and beverage products in enclosed spaces.

Conditions to Avoid

Corrosive liquid. Do not store near strong acids.

Incompatible Materials

Strong acids. Soft metals such as aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys.

Hazardous Decomposition Products

Oxides of carbon when taken to dryness and burned.

SECTION 11: TOXICOLOGICAL INFORMATION

Product Summary

This product contains potassium and sodium hydroxides which are corrosive to all tissues. Contact with skin and/or eyes, ingestion, or inhalation of spray mist may be corrosive. Possible effects include severe irritation, burns, and permanent damage to exposed tissues if immediate action is not taken.

Acute Toxicity:

Dermal: LD50 > 2,000 mg/kg rabbit (estimated using additivity formula)

Inhalation: No data available

Oral: LD50 970 m/kg rat (estimated using additivity formula)

Skin Corrosion/Irritation

Corrosive. Causes skin burns. Prolonged or repeat skin exposures can result in dermatitis.

Serious Eye Damage/Irritation

Corrosive. Causes serious eye damage which can result in severe irritation, pain and burns, and permanent damage including blindness.

Sensitization - Respiratory or Skin

No data for the product. Based upon components, product is not expected to be a respiratory or skin sensitizer.

Germ Cell Mutagenicity

No data available for the product. Based upon components, product is not expected to result in germ cell mutagenicity.

Carcinogenicity

No material in this product is listed by IARC, NTP, or OSHA as a carcinogen.

Reproductive Toxicity

No data for the product. Insufficient data for the components to evaluate. Given the product's tissue corrosiveness, other more pronounced effects would be seen making evaluation of reproductive toxicity unlikely.

Specific Target Organ Effects - Single Exposure

No data for the product.

Specific Target Organ Effects - Repeated or Prolonged Exposure

No data for the product.



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Aspiration Hazard

Based upon available data, if swallowed, may pose a lung aspiration hazard during vomiting. Lung aspiration may result in chemical pneumonitis, pulmonary edema, and damage to lung tissue or death.

SECTION 12: ECOLOGICAL INFORMATION

Product Summary

This material is caustic and will raise the pH of surface waters. Product should be considered harmful to aquatic organisms. (Acute aquatic toxicity category 3 by European Union classification).

Ecotoxicity

LC50/EC50 50-100 mg/l (estimated using additivity formula).

Persistence and Degradability

Potassium and sodium hydroxides will dissociate into their ionic forms in the aquatic environment. Natural carbon dioxide will slowly neutralize them.

Bioaccumulative Potential

Bioaccumulation potential of the materials used in this product are low.

Other Adverse Effects

Potassium hydroxide has exhibited slight toxicity to terrestrial organisms.

SECTION 13: DISPOSAL CONSIDERATIONS

Product is a D002 Corrosive Hazardous Waste under RCRA definitions. Dispose of contents/container in accordance with all applicable federal, state, and local regulations.

Note: Contaminated product, soil, water, container residues and spill cleanup materials may be hazardous wastes. Appropriate hazardous waste designation is the responsibility of the user.

SECTION 14: TRANSPORT INFORMATION

ID No.: UN3266
Proper Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
(contains sodium and potassium hydroxides)
Hazard Class: 8
Packing Group: II
Label: CORROSIVE
Marine Pollutant: No
RQ: 8,800 lbs (about 765 gallons) of product for potassium hydroxide
3,400 lbs (about 290 gallons) of product for sodium hydroxide
Special Precautions: none

SECTION 15: REGULATORY INFORMATION

TSCA

The ingredients in this product are listed on the TSCA inventory.

RCRA HAZARD CLASS

D002 - Corrosive hazardous waste



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SARA 311/312 REPORTABLE HAZARD CATEGORIES: Immediate (Acute) Health

REPORTING REQUIREMENTS (all quantities in pounds)

Component	CAS / 313 Code	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ (1)	Section 313	CAA 112(r) TQ	CWA / OPA
Potassium hydroxide	1310-58-3			1,000	313		(2)
Product RQ for component				8,800 765 gal			
Sodium hydroxide	1310-73-2			1,000	313		(2)
				3,400 290 gal			
(1) Releases exceeding the RQ just be reported to the National Response Center, 800-424-8802 and may be subject to state and local reporting. (2) Listed in the CWA as a hazardous substance							

NEW JERSEY RIGHT-TO-KNOW INFORMATION

This product contains water (CAS# 7732-18-5), sodium hydroxide (CAS# 1310-73-2), potassium hydroxide (CAS# 1310-58-3), diethylenetriamine penta(methylene phosphonic acid septasodium salt (CAS# 22042-96-2), and N-methylethanolamine (CAS# 109-83-1).

CALIFORNIA PROPOSITION 65 INFORMATION

This product does not contain any chemicals recognized by the state of California to cause cancer and/or birth defects or reproductive harm.

SCAQMD INFORMATION

Is there a photochemically reactive material present? No
What is the % by volume of photochemically reactive material? 0
What is the VOC content? 0
What is the vapor pressure of VOC's? 0

SECTION 16: OTHER INFORMATION

REVISION SUMMARY

New GHS format

SUPERSEDES ISSUE DATE

June 4, 2008

HAZARD RATING SYSTEMS:

	<u>HMIS</u>	<u>NFPA</u>
HEALTH	3	3
FLAMMABILITY	0	0
REACTIVITY	0	0
	B	

KEY
4 = Severe
3 = Serious
2 = Moderate
1 = Slight
0 = Minimal

FOR ADDITIONAL PRODUCT INFORMATION, CONTACT YOUR SALES ENGINEER
FOR ADDITIONAL HEALTH/SAFETY INFORMATION, CALL 201-567-3000

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