



**PENBLITZ™ 406L**

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Date Prepared: April 1, 2015  
MSDS No.: 1930

**SECTION 1: IDENTIFICATION**

**Product name:** PENBLITZ 406L

**Recommended use:** Cleaner, degreaser

**Physical Description:** Clear green liquid with a glycol ether odor

**Generic Ingredients:** Water, glycol ether, surfactants, inorganic builder

**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><b>Health:</b> Skin corrosion: 1C Eye damage: 1</p>	<p><b>Physical:</b> not classified</p>
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**DANGER!**

Causes Severe Skin Burns and Eye Damage.



<p><b>Precautionary Statements:</b></p>	
<p><u>Prevention:</u> Do not breathe mists if inhalable mists occur during use. Wear protective gloves, clothing, eye protection, and face protection. Wash hands and exposed skin thoroughly after handling.</p> <p><u>Response:</u> <i>If swallowed:</i> Rinse mouth. Do NOT induce vomiting. <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 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p>	<p><i>If inhaled:</i> Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center, doctor, emergency room, or 911.</p> <p><u>Storage:</u> Store locked up.</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	60-80
2-Butoxyethanol	111-76-2	10-20
Sodium xylene sulfonate	1300-72-7	<10
Ethoxylated nonylphenol	127087-87-0	<10
Sodium metasilicate	6834-92-0	<10

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



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**SECTION 4: FIRST-AID MEASURES**

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**General Description of Symptoms & First-Aid Measures**

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

For *skin contact*, typically no immediate effects will be observed. A tingling or burning sensation might be felt some time 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.

**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**

None

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**SECTION 5: FIRE FIGHTING MEASURES**

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**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.

**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



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engulfed in fire.

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

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**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.**

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**SECTION 7: HANDLING & STORAGE**

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**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. 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).

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**SECTION 8: EXPOSURE CONTROLS and PERSONAL PROTECTION**

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**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 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.



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**Occupational Exposure Limits**

<u>Component Name</u>	<u>Source</u>	<u>Value</u>	<u>Type</u>	<u>Notation</u>
Sodium metasilicate (1)	ACGIH	2 mg/m <sup>3</sup>	Ceiling	
	NIOSH	2 mg/m <sup>3</sup>	Ceiling	
	OSHA	2 mg/m <sup>3</sup>	TWA	
2-Butoxyethanol	ACGIH	20 ppm	TWA	A3; BEI
	NIOSH	5 ppm	TWA	skin
	OSHA	50 ppm	TWA	skin

(1) No OEL has been established for sodium metasilicate. Because of product pH, value given is for sodium hydroxide.

**SECTION 9: PHYSICAL & CHEMICAL PROPERTIES**

**Appearance:** clear green liquid  
**Odor:** glycol ether  
**Odor Threshold:** not determined  
**pH:** 12-12.5  
**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:** 1.04  
**Solubility (Water):** soluble in water  
**Partition Coefficient (K<sub>ow</sub>):** not determined  
**Auto-ignition temperature:** not applicable  
**Decomposition temperature:** not applicable  
**Viscosity:** less than 5 centipoise at room temperature

**SECTION 10: STABILITY & REACTIVITY**

**Reactivity**  
Product will react with acids, giving off heat.

**Chemical Stability**  
Stable.

**Hazardous Reactions**  
Mixing with acids will give off heat and may cause splattering.

**Conditions to Avoid**  
Corrosive liquid. Do not store near strong acids.

**Incompatible Materials**  
Strong acids.



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**Hazardous Decomposition Products**

Oxides of carbon and sulfur when taken to dryness and burned.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**Product Summary**

This product has a pH of 12 to 12.5 and contains sodium metasilicate. The product should be considered 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 > 6,000 mg/kg rabbit (estimated using additivity formula)

**Inhalation:** No data available

**Oral:** LD50 > 5,000 mg/kg rat (estimated using additivity formula)

**Skin Corrosion/Irritation**

Corrosive. Causes skin burns. Prolonged or repeated 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 for the product. Based upon components, product is not expected to result in germ cell mutagenicity.

**Carcinogenicity**

2-Butoxyethanol is listed by ACGIH as Group A3: Confirmed animal carcinogen with unknown relevance to humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure; and by IARC as Group 3: not classifiable as to its carcinogenicity to humans.

**Reproductive/Developmental Toxicity**

No data for the product. Insufficient data for the components to evaluate. Based upon partial component data, product is not expected to be a reproductive or developmental toxicant.

The nonionic surfactant used in this product has produced effects in the fetus only at levels that were toxic to the parent animals.

Ethylene glycol butyl ether has been toxic to the fetus in lab animals at doses toxic to the mother. Effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

In a three month study, rats fed 200, 600, and 1800 ppm sodium silicate, changes were reported in the blood chemistry of some animals, but no specific organ effects were observed. In a 4 week 2.4g/kg/day oral feeding study, kidney effects were seen in dogs but no observed effects seen in rats. 600 and 1200 ppm sodium silicate in drinking water of rats decreased number of births and survival to weaning. Frequent ingestion over extended periods of time of gram quantities of sodium silicate are associated with kidney stone formation and other siliceous urinary calculi in humans.

**Specific Target Organ Effects - Single Exposure**

No data for the product.

**Specific Target Organ Effects - Repeated or Prolonged Exposure**

No data for the product.

2-Butoxyethanol has caused effects on the blood (hemolysis) and kidney and liver effects in lab animals. Small but



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statistically significant increases in tumors were observed in mice but not rats. These effects are not believed to be relevant to humans.

**Aspiration Hazard**

Based upon available data, product is not likely to be an aspiration hazard.

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**SECTION 12: ECOLOGICAL INFORMATION**

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**Product Summary**

This material is alkaline and may raise the pH of surface waters with low buffering capacity. Product should be considered nontoxic to aquatic organisms.

**Ecotoxicity**

LC50/EC50 100-500 mg/l (estimated using additivity formula)

**Persistence and Degradability**

Inorganic components will dissociate into their ionic form in the aquatic environment. Natural carbon dioxide will slowly neutralize them. The surfactant is biodegradable. The glycol ether is readily biodegradable.

**Bioaccumulative Potential**

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

**Other Adverse Effects**

None known.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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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.

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**SECTION 14: TRANSPORT INFORMATION**

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<b>ID No.:</b>	UN3266
<b>Proper Shipping Name:</b>	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (contains sodium metasilicate)
<b>Hazard Class:</b>	8
<b>Packing Group:</b>	III
<b>Label:</b>	CORROSIVE
<b>Marine Pollutant:</b>	No
<b>RQ:</b>	none
<b>Special Precautions:</b>	none

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**SECTION 15: REGULATORY INFORMATION**

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**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	Section 313	CAA 112(r) TQ	CWA / OPA
2-Butoxyethanol	N230			(1)	313		
(1) CERCLA hazardous substance with no assigned RQ.							

**NEW JERSEY RIGHT-TO-KNOW INFORMATION**

This product contains water (CAS# 7732-18-5), ethylene glycol monobutyl ether (CAS# 111-76-2), sodium xylene sulfonate (CAS# 1300-72-7), sodium metasilicate (CAS# 6834-92-0), and ethoxylated nonylphenol (CAS# 127087-87-0).

**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? 180 g/l  
 What is the vapor pressure of VOC's? Less than 0.1 mm Hg at 20°C. Record keeping requirements for applications listed under Rule 1171 may not apply.

**SECTION 16: OTHER INFORMATION**

**REVISION SUMMARY**

New GHS format

**SUPERSEDES ISSUE DATE**

February 12, 2004

**HAZARD RATING SYSTEMS:**

	<u>H</u> MIS	<u>N</u> FPA
HEALTH	2	2
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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