



**POWERMATE™**

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Date Prepared: April 1, 2015  
MSDS No.: 1970

**SECTION 1: IDENTIFICATION**

**Product name:** POWERMATE

**Recommended use:** Cleaner, degreaser

**Physical Description:** Clear pale green liquid with mild odor

**Generic Ingredients:** Water, soap and surfactant, inorganic builder, and chelate

**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.



<b>Precautionary Statements:</b>	
<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	65-85
Potassium fatty acid soap	61790-44-1	<10
Sodium xylene sulfonate	1300-72-7	<10
Sodium silicate	1344-09-8	<10
Ethoxylated nonylphenol	127087-87-0	<10
Tetrasodium ethylenediaminetetraacetate	64-02-8	<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. If product not washed off or left in contact with skin for some time, skin burn could result.

*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 local Poison Control 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 determined

**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.



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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, nitrogen, and sulfur when taken to dryness and burned.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**Land Spill**

Adsorb 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 alkaline and may raise the pH of surface waters with low buffering capacity. 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 silicate (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	

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

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**SECTION 9: PHYSICAL & CHEMICAL PROPERTIES**

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**Appearance:** clear pale green liquid  
**Odor:** mild  
**Odor Threshold:** not determined  
**pH:** 12.5-13  
**Melting Point / Freezing:** about 32°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:** 1.07  
**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

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**SECTION 10: STABILITY & REACTIVITY**

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**Reactivity**

Product will react with acids, giving off heat and possible splattering.

**Chemical Stability**

Stable.

**Hazardous Reactions**

Mixing with acids will give off heat and may cause splattering. Hazardous polymerization will not occur.

**Conditions to Avoid**

Alkaline liquid. Do not store near strong acids.

**Incompatible Materials**

Strong acids.

**Hazardous Decomposition Products**

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



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## SECTION 11: TOXICOLOGICAL INFORMATION

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### Product Summary

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

### Acute Toxicity:

**Dermal:** LD50 > 5,000 g/kg rabbit (estimated using additivity formula)

**Inhalation:** No data available

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

### Skin Corrosion/Irritation

Short term exposure may be irritating. Longer term exposure may cause severe irritation or possibly burns. Prolonged or repeat skin exposures can result in dermatitis.

### Serious Eye Damage/Irritation

Short term exposure may be irritating. Longer term exposure can cause serious eye damage which can result in severe irritation, pain and burns, and permanent damage including blindness.

### Sensitization - Respiratory or Skin

Based upon components, product is not expected to be a respiratory or skin sensitizer.

### Germ Cell Mutagenicity

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 / Developmental Toxicity

No data for the product. Based upon components, 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.

### Specific Target Organ Effects - Single Exposure

No data.

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

No data for the product.

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

### Aspiration Hazard

Based upon components, product not expected 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 considered toxic to nontoxic to aquatic organisms. (Acute aquatic toxicity category 3 to based upon European Union classification).



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**Ecotoxicity**

LC50/EC50 50-150 mg/l (estimated using additivity formula)

**Persistence and Degradability**

The inorganic components will dissociate into their ionic forms in the aquatic environment. Natural carbon dioxide will slowly neutralize them. The soap and surfactants used in this product are biodegradable to readily biodegradable.

**Bioaccumulative Potential**

No data available. Because of ready biodegradability of surfactant, bioaccumulation potential considered low.

**Other Adverse Effects**

None known.

**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 silicate)  
**Hazard Class:** 8  
**Packing Group:** III  
**Label:** CORROSIVE  
**Marine Pollutant:** No  
**RQ:** none  
**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

**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
no components subject to reporting							

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

This product contains water (CAS# 7732-18-5), potassium fatty acid soap (CAS# 61790-44-1), sodium xylene



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sulfonate (CAS# 1300-72-7), sodium silicate (CAS# 1344-09-8), ethoxylated nonylphenol (CAS# 127087-87-0), and tetrasodium ethylenediaminetetraacetate (CAS 64-02-8).

**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

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**SECTION 16: OTHER INFORMATION**

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**REVISION SUMMARY**

New GHS format

**SUPERSEDES ISSUE DATE**

July 2, 2007

**HAZARD RATING SYSTEMS:**

	<u>HMIS</u>	<u>NFPA</u>
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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