



**POWER CLEANER®**

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Date Prepared: July 27, 20162015  
MSDS No.: 1848

**SECTION 1: IDENTIFICATION**

**Product name:** POWER CLEANER  
**Recommended use:** Cleaner, degreaser  
**Physical Description:** Clear water white liquid with mild odor  
**Generic Ingredients:** Water, inorganic builders, surfactants, glycol ether, and alkanolamine  
**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:**

<b>Health:</b> Skin corrosion: 1C Eye damage: 1	Carcinogenicity: 2 <b>Physical:</b> not classified
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**DANGER!**  
Causes Severe Skin Burns and Eye Damage.  
Suspected of Causing Cancer.



<b>Precautionary Statements:</b>	
<u>Prevention:</u> Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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.  <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. <i>If inhaled:</i> Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center, doctor, emergency room, or 911. If exposed or concerned: Get medical advice/attention.  <u>Storage:</u> Store locked up.  <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).

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS#	Concentration Wt% (1)
Water	7732-18-5	65-85
Sodium xylene sulfonate	1300-72-7	<10
Tripotassium phosphate	7758-53-2	<10
Tetrapotassium pyrophosphate	7320-34-5	<10
Diethylene glycol monobutyl ether	112-34-5	<10
Diethanolamine	111-42-2	<10



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Mixed surfactant system

proprietary

<1

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

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**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*, 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**

**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



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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, nitrogen, phosphorus and sulfur when taken to dryness.

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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.



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**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>
Diethanolamine	ACGIH NIOSH	1 mg/m <sup>3</sup> (IFV) 3 ppm	TWA	skin; A3
Diethylene glycol butyl ether	ACGIH	10 ppm (IFV)	TWA	

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**SECTION 9: PHYSICAL & CHEMICAL PROPERTIES**

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**Appearance:** clear water white liquid  
**Odor:** mild  
**Odor Threshold:** not determined  
**pH:** >12.5  
**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:** 1.17  
**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.



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**Hazardous Decomposition Products**

Oxides of carbon, nitrogen, phosphorus 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. Product pH is greater than 13. 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**

Diethanolamine is listed by IARC as Group 2B: possibly carcinogenic to humans and by ACGIH as Group 3A: 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 of exposure.

Diethanolamine in the presence of nitrites can form suspected cancer causing nitrosamines.

**Reproductive / Developmental Toxicity**

No data for the product. Insufficient data for the components to evaluate.

**Specific Target Organ Effects - Single Exposure**

No data for the product.

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

No data for the product.

Inorganic phosphates have been extensively studied because of their use as food additives. Very high oral doses (1% in the diet) have produced toxic effects on the kidneys and parathyroid glands.

Diethylene glycol butyl ether has had effects on the kidney, liver, and blood of lab animals at high feeding levels over extended periods of time.

**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 nontoxic to aquatic organisms.

**Ecotoxicity**

LC50/EC50 > 1,000 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 surfactant in this product are readily biodegradable.

**Bioaccumulative Potential**

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

**Mobility in soil**

No data available. Inorganic materials will stay in water.

**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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**ID No.:** UN 3266  
**Proper Shipping Name:** CORROSIVE LIQUID, BASIC, INORGANIC, (contains tripotassium phosphate)  
**Hazard Class:** 8  
**Packing Group:** III  
**Label:** CORROSIVE  
**Marine Pollutant:** not applicable  
**RQ:** 3,600 lbs (about 350 gallons) of product for diethanolamine  
**Special Precautions:** 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

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



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**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
Diethanolamine	111-42-2			100	313		
Product RQ for component				3,600 350 gal			
Diethylene glycol butyl ether	N230			(2)	313		
(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) CERCLA hazardous substance with no assigned RQ							

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

This product contains water (CAS# 7732-18-5), sodium xylene sulfonate (CAS# 1300-72-7), tripotassium phosphate (CAS# 7778-53-2), tetrapotassium pyrophosphate (CAS# 7320-34-5), diethylene glycol monobutyl ether (CAS# 112-34-5), and diethanolamine (CAS# 111-42-2).

**CALIFORNIA PROPOSITION 65 INFORMATION**

This product contains a chemical recognized by the state of California to cause cancer: diethanolamine (CAS# 111-42-2)

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

**SECTION 16: OTHER INFORMATION**

**REVISION SUMMARY**

Changes in Sections 9, 11, 14, & 15

**SUPERSEDES ISSUE DATE**

April 1, 2015

**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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