

## PENPOWER™ 226H

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Date Prepared: December 6, 2024  
SDS No.: 1500

### SECTION 1: IDENTIFICATION

**Product name:** PENPOWER 226H

**Recommended use:** Cleaner, degreaser

**Physcial Description:** Tan granular powder, virtually odorless

**Generic Ingredients:** Inorganic builders and surfactants

**Manufacturer:**

Penetone Corporation  
375 Murray Hill Pkwy.  
East Rutherford, NJ 07073  
800-631-1652 or 201-567-3000

**Business Contact:**

Customer Service  
800-631-1652 x2272  
Product Safety  
800-631-1652 x2257

**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 Reproductive toxicity: 2	Specific target organ effect - single exposure: 3  <b>Physical:</b> not classified
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**DANGER!**

Causes Severe Skin Burns and Eye Damage.  
May Cause Respiratory Irritation.  
Suspected of Damaging Fertility.



**Precautionary Statements:**

Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.  
Do not breathe dusts. Use only outdoors or in a well ventilated area. Wear protective gloves, clothing, eye protection, and face protection.  
Wash hands and exposed skin thoroughly after handling.

Response:

*If swallowed:* Rinse mouth. Do NOT induce vomiting.  
*If on skin or hair:* Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.  
*If in eyes:* Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

*If inhaled:* Remove person to fresh air and keep comfortable for breathing.  
Immediately call a poison center, doctor, emergency room, or 911. Get medical advice/attention if you feel unwell. If exposed or concerned: Get medical advice/attention.

Storage:

Store locked up.

Disposal:

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)
Sodium carbonate	497-19-8	30-50
Sodium tetraborate pentahydrate	11130-12-4	20-40
Sodium metasilicate	6834-92-0	10-25
Sodium dodecylbenzene sulfonate	25155-30-0	<10
Sodium lignosulfonate	8061-51-6	<10
Ethoxylated nonylphenol	127087-87-0	<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 a powder 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 engulfed in fire.

**Hazardous Combustion Products:** Smoke, fumes, and oxides of carbon, boron, silicon, and sulfur when burned.



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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Land Spill**

Sweep up material. Put all material into proper waste disposal container with lid tightly covered. Rinse area with plenty of water.

**Water Spill**

This is a powder will completely mix/dissolve in water making recovery difficult. Undissolved powder should be recovered if possible. This product is alkaline and will raise the pH of surface waters. Localized high concentration of product may cause fish kills, but no persistent or long term effects are anticipated. 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. 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 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**

Component Name	Source	Value	Type	Notation
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	
Borate compounds, inorganic	ACGIH	2 mg/m <sup>3</sup> (1)	TWA	A4
		6 mg/m <sup>3</sup> (1)	STEL	
	NIOSH	1 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:** tan granular powder  
**Odor:** bland  
**Odor Threshold:** not determined  
**pH:** not applicable  
**Melting Point / Freezing:** not applicable  
**Boiling Point / Boiling Point Range:** not applicable  
**Flash Point:** not applicable  
**Evaporation Rate:** not applicable  
**Flammability:** not applicable  
**Lower Flammable Limit:** not applicable  
**Upper Flammable Limit:** not applicable  
**Explosive Properties:** not applicable  
**Vapor Pressure:** not applicable  
**Relative Vapor Density:** equal to water  
**Relative Density:** not applicable  
**Solubility (Water):** soluble in water  
**Partition Coefficient ( $K_{ow}$ ):** not determined  
**Auto-ignition temperature:** not applicable  
**Decomposition temperature:** not applicable  
**Viscosity:** not applicable

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**SECTION 10: STABILITY & REACTIVITY**

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**Reactivity**

Product will react with acids. Addition of acid or water to this product may generate large amounts of heat and may cause splattering.

**Chemical Stability**

Stable.

**Hazardous Reactions**

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

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**Conditions to Avoid**

Do not store near strong acids.

**Incompatible Materials**

Strong acids.

**Hazardous Decomposition Products**

Smoke, fumes, and oxides of carbon, boron, silicon, and sulfur when burned.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**Product Summary**

This product is an alkaline powder and contains sodium metasilicate. The product should be considered corrosive to all tissues. Contact with skin and/or eyes, ingestion, or inhalation of dust may be corrosive. Possible effects include severe irritation, burns, and permanent damage to exposed tissues if immediate action is not taken.



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**Acute Toxicity:**

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

**Inhalation:** No data available

**Oral:** LD50 > 2,000 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**

Borates are listed by ACGIH as Group 4: Not classifiable as a human carcinogen.

**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.

Fetal weight loss and minor skeletal variations have been seen in animal feeding studies. Prenatal development toxicology study of rats an NOEL of 55 mg boric acid/ kg bw was observed. Based on this, classified as a reproductive/developmental toxicant Category 2. No adverse fertility effects were seen in sperm of highly exposed borate workers when a subset of these workers were exposed to 125 mg boron /day. Epidemiological studies of exposed borate workers and populations living in areas with high boron levels were also negative.

**Specific Target Organ Effects - Single Exposure**

No data for the product.

**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.

Chronic study, rat, oral, NOAEL 17.5 mg boron/kg bw/day in chronic feeding study (2 years in rats based on testes effects.) Other effects (kidney, haemopoietic system) seen only at higher dose levels. Classification criteria not met.

**Aspiration Hazard**

Product form makes it 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 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 10-100 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



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slowly neutralize them. The surfactants are biodegradable.

**Bioaccumulative Potential**

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

**Other Adverse Effects**

None known.

**SECTION 13: DISPOSAL CONSIDERATIONS**

The product as received is a nonhazardous waste. Wet powder or solutions may be a D002 Corrosive Hazardous Waste if they have a pH equal to or greater than 12.5. 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.:** UN3262  
**Proper Shipping Name:** CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (contains sodium metasilicate)  
**Hazard Class:** 8  
**Packing Group:** III  
**Label:** CORROSIVE  
**Marine Pollutant:** No  
**RQ:** 20,000 lbs of product for sodium dodecylbenzene sulfonate  
**Special Precautions:** none

**SECTION 15: REGULATORY INFORMATION**

**TSCA**

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

**RCRA HAZARD CLASS**

Nonhazardous waste - see comments in Section 13.

**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
Sodium dodecylbenzene sulfonate	25155-30-0			1,000			
Product RQ for component				20,000			
(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.							

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

This product contains sodium carbonate (CAS# 497-19-8), sodium tetraborate (CAS# 1303-96-4), sodium metasilicate (CAS# 6834-92-0), sodium dodecylbenzene sulfonate (CAS# 25155-30-0), sodium lignosulfonate (CAS# 8061-51-6), and ethoxylated nonylphenol (CAS# 127087-87-0).



# SAFETY DATA SHEET

Penetone® Corporation, 375 Murray Hill Pkwy., East Rutherford, NJ 07073

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### 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

Change in Header and Section 1

### SUPERSEDES ISSUE DATE

September 23, 2019

### 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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