

SAFETY DATA SHEET

POWER PLUS

SECTION 1: PRODUCT & COMPANY IDENTIFICATION

DATE: 10/13/2014 / Supersedes Revision: N/A

Manufacturer:

PDQ Manufacturing, Inc.
201 Victory Circle
Ellijay, GA USA 30540
Phone: (706) 636-1848
Website: www.pdqonline.com

Distributor:

PROCLEAN SYSTEMS/SWISHER HYGIENE
P. O. BOX 472528
CHARLOTTE, NC 28247
800/338-8652

EMERGENCY CONTACT: Chemtrec, Reference CCN203605
Phone: (800) 424-9300 (collect calls accepted) / International: (703) 527-3887

Product Name: POWER PLUS

ID Code: 4522

Product Category: Alkaline Detergent

SECTION 2: HAZARD(S) IDENTIFICATION

Serious Eye Damage/Eye Irritation, Category 2A
Skin Corrosion/Irritation, Category 1A



GHS Signal Word: DANGER

GHS Hazard Phrases:

H319 - Causes serious eye irritation.
H314 - Causes severe skin burns and eye damage.

GHS Precaution Phrases:

P264 - Wash hands thoroughly after handling.
P280 - Wear eye and face protection when handling. Wear protective gloves.
P260 - Do not breathe dust, fumes, mist or spray.

GHS Response Phrases:

P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 - Rinse mouth.
P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 - Wash contaminated clothing before reuse.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or physician for treatment advice. Have product container or label with you when calling poison control center or physician.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310 - Immediately call a POISON CENTER/doctor.
P337+313 - If eye irritation persists, get medical advice/attention.

GHS Storage and Disposal Phrases:

P405 - Store locked up.
P501 - Unused product is not a RCRA Hazardous waste. However, contaminated product and wastes may be RCRA hazardous. Users are advised to determine the appropriate disposal method based on local, state and federal regulations and comply with those regulations.

Hazard Rating System:

HMIS

Health: 2
Flammability: 0
Physical: 2
PPE: D

NFPA

Health: 2
Flammability: 0
Instability: 0
Special Hazard: COR

Potential Health Effects (Acute and Chronic): Prolonged or repeated skin contact may cause dermatitis.

Inhalation: Harmful if inhaled. May cause respiratory tract irritation. Irritation may lead to chemical pneumonitis and pulmonary edema. Causes severe irritation of upper respiratory tract with coughing, burns, breathing difficulty, and possible coma. Causes chemical burns to the respiratory tract.

Skin Contact: Causes skin irritation. May be harmful if absorbed through skin. Causes skin burns. May cause deep, penetrating ulcers of the skin. May cause skin rash (in milder cases), and cold and clammy skin with cyanosis or pale color.

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Eye Contact: Causes eye burns. May cause chemical conjunctivitis and corneal damage.

Ingestion: May be harmful if swallowed. May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. Causes severe pain, nausea, vomiting, diarrhea, and shock. May cause corrosion and permanent tissue destruction of the esophagus and digestive tract. May cause systemic effects.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	<40.0 %
6132-04-3	Sodium citrate, dehydrate	>10.0 %
40372-66-5	1,2,4-Butanetricarboxylic acid, 2-phosphono-,sodium salt	< 5.0 %

SECTION 4: FIRST-AID MEASURES

Emergency and First Aid Procedures:

In Case of Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid.

In Case of Skin Contact: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse. Wash off with soap and plenty of water.

In Case of Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately.

In Case of Ingestion: Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point: NP Method Used: Estimate

Explosive Limits: LEL: UEL:

Autoignition Pt: NA

Suitable Extinguishing Media: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Do NOT get water inside containers. Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Use water spray to keep fire-exposed containers cool. Use water with caution and in flooding amounts. Contact with moisture or water may generate sufficient heat to ignite nearby combustible materials. Contact with metals may evolve flammable hydrogen gas. Wear self contained breathing apparatus for fire fighting if necessary.

Flammable Properties and Hazards:

SECTION 6: ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled: Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. (See Exposure Controls, Personal Protection section). Provide ventilation. Do not let this chemical enter the environment. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Do not get water on spilled substances or inside containers. Environmental precautions. Do not let product enter drains. Methods for cleaning up. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Precautions To Be Taken in Handling: Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Wash thoroughly after handling. Do not allow water to get into the container because of violent reaction. Keep container tightly closed. Avoid ingestion and inhalation. Discard contaminated shoes. Use only with adequate ventilation. Normal measures for preventive fire protection.

Precautions To Be Taken in Storing: Store in a cool, dry place. Store in a tightly closed container. Keep away from acids. Store in a cool, dry, well-ventilated area away from incompatible substances. Corrosives area. Store protected from moisture.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	PEL: 2 mg/m3	CEIL: 2 mg/m3	
6132-04-3	Sodium citrate, dihydrate			
40372-66-5	1,2,4-Butanetricarboxylic acid,2-phosphono-, sodium salt			

Respiratory Equipment (Specify Type): A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use. is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Wear chemical splash goggles. Safety glasses.

Protective Gloves: Wear appropriate protective gloves to prevent skin exposure. For prolonged or repeated contact use protective gloves.

Other Protective Clothing: Wear a chemical apron.

Engineering Controls (Ventilation etc.): Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Work/Hygienic/Maintenance Practices: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Environmental Exposure Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower

Work/Hygienic/Maintenance Practices: General industrial hygiene practice.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical States: Gas Liquid Solid

Appearance and Odor: Granular, white to off-white powder mild odor.

Melting Point: NA

Boiling Point: NA

Autoignition Pt: NA

Flash Pt: NP

Explosive Limits: LEL: UEL:

Specific Gravity (Water = 1):

Density: 60 - 68 LB/CF

Vapor Pressure (vs. Air or mm Hg):

Vapor Density (vs. Air = 1):

Evaporation Rate:

Solubility in Water: ~ 20%

pH: > 12.5 @ 1%

Percent Volatile:

SECTION 10: STABILITY AND REACTIVITY

Stability: Unstable Stable

Conditions To Avoid - Instability: Exposure to moist air or water.

Incompatibility – Materials To Avoid: Acids, Hydrogen peroxide, Aluminum, Zinc, gelatin, leather, flammable liquids, organic halogens.

Hazardous Decomposition Or Byproducts: OrCarbon monoxide, Carbon dioxide, Toxic fumes of sodium oxide, Carbon oxides.

Possibility of Hazardous Reactions: Will occur Will not occur

Conditions To Avoid -Hazardous Reactions:

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological Information:

Carcinogenicity/Other Information: CAS# 497-19-8: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 1310-73-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	n.a.	n.a.	n.a.	n.a.
6132-04-3	Sodium citrate, dihydrate	n.a.	n.a.	n.a.	n.a.
40372-66-5	1,2,4-Butanetricarboxylic acid, 2-phosphono-, sodium salt	n.a.	n.a.	n.a.	n.a.

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SECTION 12: ECOLOGICAL INFORMATION

General Ecological Information: Environmental: Not regulated.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state, and local environmental regulations.

SECTION 14: TRANSPORTATION INFORMATION (DOT/UN CLASSIFICATION)

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Corrosive solid, basic, inorganic, n.o.s. (contains sodium hydroxide)

DOT Hazard Class: 8 CORROSIVE

UN/NA Number: UN3262

LAND TRANSPORT (Canadian TDG): II

TDG Shipping Name:



SECTION 15: REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	No	Yes 1000 LB	No
6132-04-3	Sodium citrate, dihydrate	No	No	No
40372-66-5	1,2,4-Butanetricarboxylic acid, 2-phosphono-,sodium salt	No	No	No

CAS #	Hazardous Components (Chemical Name)
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}

Other US EPA or State Lists

CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

6132-04-3	Sodium citrate, dihydrate
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CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No

40372-66-5	1,2,4-Butanetricarboxylic acid, 2-phosphono-, sodium salt
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CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

SECTION 16: OTHER INFORMATION

Revision Date: 10/13/2014

Preparer Name: Regulatory Affairs

Additional Information About This Product:

Company Policy or Disclaimer: The information contained in this Safety Data Sheet is provided pursuant to current OSHA regulations to convey information concerning the hazardous nature of the named product. The information supplied was compiled from the most reliable sources available at the time of preparation and in light of the most reasonable foreseeable exposure situations expected from the intended use of this product. The material(s) may present greater or lesser hazard exposure under other circumstances that are beyond the control of the manufacturer. Therefore it is imperative that all directions and warnings on the product label be read and closely followed.