NATIONAL PURITY
6840 SHINGLE CREEK PKWY, STE 23
BROOKLYN CENTER, MN 55430
(612) 672-0022

SAFETY DATA SHEET

1. Product and Company Identification

Product Name	**POWER PREP**
Product Number	**423**
Product Type	Mixture
Product Use	Car wash
Manufacturer/Supplier	National Purity 6840 Shingle Creek Parkway, Suite #23 Brooklyn Center, MN 55430
Company Contact	612-672-0022
Emergency Telephone Number	1-800-255-3924

2. Hazards Identification

GHS Classification in accordance with 29 CFR 1910 OSHA HCS

Skin corrosion/irritation, (Category 3) H316
Eye damage/irritation, (Category 2B) H320
Acute Toxicity, (Category 5) H333
Acute aquatic toxicity, (Category 3) H402

GHS Label elements, including precautionary statements

Pictogram	None required
Signal word	Warning
Hazard Statements	
H316	Causes mild skin irritation
H320	Causes eye irritation.
H333	May be harmful if inhaled
H402	Harmful to aquatic life.
Precautionary Statements	
Prevention	
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
Response	
P332+P313	If skin irritation occurs, get medical advice/attention.
P305+P351+P337+P313	IF IN EYES, rinse cautiously for several minutes. Remove contact lenses if present. Continue rinsing. If eye irritation persists, Get medical advice and attention.
P304+P312	IF INHALED, Call a POISON CENTER/Doctor if feeling unwell.
Storage/Disposal	
P501	Dispose of contents/container in accordance with local/regional/federal regulations.

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.3. Composition/Information on Ingredients

The criteria for listing components in this section are ingredients that meet the criteria for carcinogenic, toxic to reproduction, or specific target organ toxicity and components otherwise considered hazardous according to OSHA which exceed the cut off limits for SDS specified by the criteria for mixtures are listed . Nonhazardous components are not listed. This is not a composition disclosure. Exact percentages are considered proprietary and a trade secret.

Hazardous Components	CAS#	Classification	%
Ethylene glycol monobutyl ether	111-76-2	H319	< 2 %
Tetrasodium ethylenediamine tetraacetate	64-02-8	H315,H319, H335	< 2%
Sodium (C14-C16) Olefin sulfonate	68439-57-6	H316, H320	1-5%
Nonylphenol, ethoxylated	9016-45-9	H302, H315	< 3%
Benzene, 1,1'-oxybis-, tetrapropylene derivatives, sulfonate	119345-04-9	H318	< 3%
Potassium Hydroxide	1310-58-3	H290, H302, H314, H335	2-9%
Sodium Metasilicate Pentahydrate	10213-79-3	H290, H314, H335	< 3 %

4. First Aid Measures

Description of First Aid Procedures

General Advise — Consult a physician. Show this SDS to the doctor.

In Case of Eye Contact — Flush with cool running water for 15 minutes. Remove contact lenses if present. Get medical attention.

In Case of Skin Contact — Rinse thoroughly with cool running water. Remove contaminated clothing. Get medical attention if irritation occurs or persists.

If Ingested — Rinse mouth with water. **Do not induce vomiting.** Obtain medical attention if feeling unwell.

If Inhaled — Move person to fresh air. If breathing difficulty persists, consult a physician.

Notes to Physician — Symptoms may be delayed.

General advice — Seek medical attention if feeling unwell. Show the SDS to the physician in attendance.

5. Fire-fighting Measures

Flammable properties — None

Extinguishing media — Use methods appropriate to the source of the fire.

Protection of firefighters — Firefighters should wear protective clothing including self contained breathing apparatus .

Hazardous combustion products — May include and not limited to oxides of carbon, sulfur, and nitrogen.

Unusual Fire, Explosion hazards — Containers may melt or rupture from heat of fire. May form combustible mixtures with air when heated.

6. Accidental Release Measures

Personal precautions — Keep unnecessary personal away. Do not touch or walk through spilled material.

Methods for containment — Stop leak if you can do so without risk. Prevent entry into waterways, sewers.

Methods for cleaning up — Before attempting clean up, refer to hazard data given above.
Small spills, may be mopped up and rinsed.
Large spills, dike area to prevent from spreading. Absorb with non reactive absorbent and place in suitable, covered, and labeled container. Rinse area with water. Never return spill to original container.

Environmental precautions — Avoid spills. Keep out of waterways.

7. Handling and Storage

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Precautions for Safe Handling	Use good industrial hygiene practices when handling this material. Avoid contact with eyes.
Conditions for Safe Storage	Keep container closed when not in use.

8. Exposure Controls and Personal Protection

Exposure Limits

Ingredients	CAS#	OSHA PEL	ACGIH TLV
Ethylene glycol monobutyl ether	111-76-2	(Vacated) TWA: 25 ppm	TWA: 20 ppm
Tetrasodium ethylenediamine tetraacetate	64-02-8	Not available	Not available
Sodium (C14-C16) olefin sulfonate	68439-57-6	Not available	Not available
Benzene, 1,1'-oxybis-, tetrapropylene derivatives, sulfonate	119345-04-9	Not available	Not available
Nonylphenol, ethoxylated	9016-45-9	Not available	Not available
Potassium Hydroxide	1310-58-3	(Vacated) Ceiling: 2 mg/m3	Ceiling: 2 mg/m3
Sodium Metasilicate	10213-79-3	Not available	Not available

Engineering controls	General ventilation normally adequate.
Personal protective equipment	
Eye/Face protection	Wear goggles or safety glasses with side shields if splash conditions exist. Have suitable eye wash water available.
Hand protection	None generally required.
Skin and body	Not required with normal use.
Respiratory protection	Use a NIOSH approved respirator when exposure guidelines are exceeded.
General hygiene considerations	Handle in accordance with good industrial hygiene practices. Do not eat or drink when using product. Rinse hands well before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance/form	Clear liquid
Color	Colorless-slight yellow
Odor	Slight solvent odor
Odor threshold	Not established
pH	13.00-13.40 (dilution)
Melting/freezing point	Not established
Initial Boiling point	≈212º F. (100º C.)
Flash point	> 200º F. (93º C.) Estimated
Evaporation rate	< 1 (butyl acetate = 1)
Flammability	Not flammable
Upper/lower flammability or Explosive limits	Not applicable
Vapor pressure	Not established
Vapor density	< 1 (air=1)
Specific gravity/density	1.01-1.05
Solubility in water	Complete
VOC	< 1%
% Volatile	Approx 85%
Other Safety Information	

10. Stability and Reactivity

Reactivity	Not known to be reactive.
Chemical Stability	Stable under normal storage conditions.
Hazardous reactions	None known.

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Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Strong acids, strong oxidizing agents.
Hazardous decomposition products	May include but not limited to oxides of carbon, sulfur, and nitrogen.
Hazardous polymerization	Will not occur.

11. Toxicological Information

Ingredients	**LC50**
Ethylene glycol monobutyl ether	2.56 mg/l 4 hours (Inhalation)
Tetrasodium ethylenediamine tetraacetate	> 100mg/L
Sodium (C14-C16) olefin sulfonate	No data available
Benzene, 1,1'-oxybis-, tetrapropylene derivatives, sulfonate	No data available
Nonylphenol, ethoxylated	
Potassium Hydroxide	No data available
Sodium Metasilicate	210mg/L (96h, Bachydanio rerio)

Ingredients	**LD50**
Ethylene glycol monobutyl ether	1,300 mg/kg Oral (Rat)
Tetrasodium ethylenediamine tetraacetate	3,030mg/kg Oral (Rat), > 5000mg/kg Dermal (Rabbit)
Sodium (C14-C16) olefin sulfonate	2310 mg/kg Oral (Rat), 6300 mg/kg Oral (Rabbit)
Benzene, 1,1'-oxybis-, tetrapropylene derivatives, sulfonate	No data available
Nonylphenol, ethoxylated	3989-5000 mg/kg Oral (Rat)
Potassium Hydroxide	333-384 mg/kg Oral (Rat)
Sodium Metasilicate	1152-1349 mg/kg Oral (Rat), > 5000 mg/kg Oral (Rat)

Eye	Causes eye irritation.
Skin	Causes mild skin irritation.
Ingestion	Not expected to be harmful upon ingestion.
Inhalation	Not expected to be harmful upon inhalation.
Sensitization	No data available**.**
Chronic effects of short and long Term exposure	Prolonged exposure to skin may cause drying, defatting and irritation.
Carcinogenicity	Does not contain ingredients considered carcinogenic by NTP, or OSHA.
Mutagenicity	No data available.
Reproductive effects	No data available.
Teratogenicity	No data available.

12. Ecological Information

Eco-toxicity	Ecological effects for this product have not been analyzed. However, if spilled this product's ingredients are harmful to aquatic life and may have long lasting effects.
Aquatic toxicity	
Ethylene glycol monobutyl ether	No data available.
Tetrasodium ethylenediamine tetraacetate	LC50 Fish: (Pimephales promelas): > 100mg/l 96 hours
Benzene, 1,1'-oxybis-, tetrapropylene derivatives, sulfonate	No data available.

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Sodium (C14-C16) Olefin sulfonate	LC50 Fish: 2.6mg/l 96 hours EC50 Daphnia: 4.5 mg/l 48 hours EC50 Algae: 42.3 mg/l 72 hours
Nonylphenol ethoxylated	LC50 Pimephales promelas, (fathead minnow): 3.87-7mg/L 96 hours LC50 Lepomis macrochirus (Bluegill): 1.0 mg/l 96 hours EC50 (Algae) Scenedesmus quadricauda, (Green algae): 17mg/L
Potassium Hydroxide	LC50 Gambusia affinis (Mosquito fish): 80 mg/l 96 hours
Sodium Metasilicate	LC50 Fish (Brachydanio rerio): 210 mg/l 96 hours EC50 Aquatic invertebrates (Daphnia magna): 1700 mg/l 48 hours

Environmental effects	Hazard can not be excluded if product is misused or released to the environment..
Persistence and Degradability	No data available.
Bioaccumulation/accumulation	No data available.
Partition coefficient	No data available.
Mobility in environmental media	No data available.
Chemical fate information	No data available.
Other adverse effects	No data available.

13. Disposal Considerations

Waste codes	Not Available
Disposal instructions	Dispose in accordance with local, state, and federal regulations
Wastes from residues/unused product	Contain. Rinse area with water. Keep out of storm sewer/waterways.
Contaminated packaging	Dispose in accordance with all applicable regulations.

14. Transport Information

Basic shipping requirements:	DOT Regulated
Proper shipping name:	**CORROSIVE LIQUID, Basic, Inorganic (Sodium Metasilicate, Potassium Hydroxide)**
Hazard class:	**Class 8**
UN number:	**UN3266**
Packing group:	**III**
Special provisions:	**N/A**
Packaging exceptions:	**N/A**

15. Regulatory Information

U.S federal regulations	This product has been classified in accordance with the Occupational Safety and Health Administration hazard criteria and the SDS contains all of the information required by OSHA. HCS 2012
TSCA	All ingredients are listed on the Toxic Substances Control Act or are exempt from listing.
CERCLA Super Fund 40CFR117.302	Product contains a material with a Reportable Quantity (RQ): None
SARA Title III Section 311&312	Immediate (Acute) Health Hazard: Ethylene glycol monobutyl ether CAS# 111-76-2 Tetrasodium ethylenediamine tetraacetate CAS# 64-02-8 Benzene, 1,1'-oxybis-, tetrapropylene derivatives, sulfonate CAS# 119345-04-9 Sodium (C14-C16) Olefin sulfonate CAS# 68439-57-6

Nonylphenol, ethoxylated CAS# 9016-45-9
Potassium Hydroxide CAS# 1310-58-3

SARA Title III Section 313

Ingredients are subject to the reporting requirements of section 313 of Title III SARA:
Ethylene glycol monobutyl ether CAS# 111-76-2
Tetrasodium ethylenediamine tetraacetate CAS# 64-02-8

States Right to Know

Massachusetts Right To Know: 2-Butoxyethanol (CAS: 111-76-2), Potassium Hydroxide (CAS: 1310-58-3)
New Jersey Right To Know: 2-Butoxyethanol (CAS: 111-76-2), Nonylphenol, ethoxylated (CAS: 9016-45-9), Potassium Hydroxide (CAS: 1310-58-3)
Pennsylvania Right To Know: 2-Butoxyethanol (CAS: 111-76-2), Nonylphenol, ethoxylated (CAS: 9016-45-9), Potassium Hydroxide (CAS: 1310-58-3)
Rhode Island Right To Know: 2-Butoxyethanol (CAS: 111-76-2), Potassium Hydroxide (CAS: 1310-58-3)
Illinois Right To Know: 2-Butoxyethanol (CAS: 111-76-2)

California Proposition 65

This product does not contain chemicals known to the state of California to cause cancer :

Inventory Status

Countries	Inventory Name	On Inventory (Yes/No)*
U.S.	CIL	Yes
Canada	DSL	Yes

- A "Yes" indicates that all of the components of this product comply with the inventory requirements administered by the governing country(s) listed.

16. Other Information

HMIS RATING

HMIS Legend

Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	1
Flammability	0
Reactivity	**1**
Personal Protection	**0**

Disclaimer

To the best of our knowledge, the information included herein is accurate**.** However, neither the above named supplier or any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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