

## SAFETY DATA SHEET

### 1. Product and Company Identification

<b>Product Name</b>	<b>SUPER LIQUID DETERGENT</b>
<b>Product Number</b>	<b>421</b>
<b>Product Type</b>	Mixture
<b>Product Use</b>	Detergent used in pressure washers
<b>Manufacturer/Supplier</b>	National Purity 6840 Shingle Creek Parkway, Suite #23 Brooklyn Center, MN 55430
<b>Company Contact</b>	612-672-0022
<b>Emergency Telephone Number</b>	1-800-255-3924

### 2. Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 OSHA HCS**

- Skin corrosion/irritation, (Category 3) H315
- Eye damage/irritation, (Category 2A) H319
- Specific organ toxicity single exposure, (Category 3), H335
- Acute aquatic toxicity, (Category 3) H402
- Hazardous to the aquatic environment, (Category Chronic 3) H412

**GHS Label elements, including precautionary statements**

**Pictogram**



**Signal word**

Warning

**Hazard Statements**

- H315 Causes skin irritation
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H402 Harmful to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

**Prevention**

- P264 Wash hands thoroughly after handling.
- P261 Avoid breathing mists, vapors, or spray.
- P280 Wear protective gloves.
- P271 Use only outdoors, or in a well ventilated area.
- P273 Avoid release to the environment.

**Response**

- P302+P352 IF ON SKIN: wash with plenty of water.
- P332+P313 If skin irritation occurs, get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse
- P305+P351+P338 IF IN EYES: rinse cautiously for several minutes. Remove contact lenses if present. Continue rinsing.
- P337+P313 If eye irritation persists, get medical advice/attention.

P304+P340	IF INHALED: remove person to fresh air and make comfortable for breathing.
P312	Call a POISON CENTER/doctor if having difficulty breathing or feeling unwell.
<b>Storage/Disposal</b>	
P402+P233	Store in a well ventilated space. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/federal regulations.

### 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. Non hazardous components are not listed. This is not a composition disclosure. Exact percentages are considered proprietary and a trade secret.

Hazardous Components	CAS#	Classification	%
Sodium carbonate	497-19-8	H319	1-5%
Potassium silicate	1312-76-1	H315, H319	1-5%
Sodium tripolyphosphate	7758-29-4	H315, H319	1-5%
(Nonylphenoxy) polyethylene oxide	127087-87-0	H314, H318	1-5%
Aromatic phosphate ester	Proprietary	H316, H320	1-5%
Sodium xylene sulfonate	1300-72-7	H303, H313, H333	1-3%
Potassium hydroxide	1310-58-3	H301, H314, H318, H402, H412	1-3%

### 4. First Aid Measures

#### Description of First Aid Procedures

<b>General Advise</b>	Consult a physician. Show this SDS to the doctor.
<b>In Case of Eye Contact</b>	Flush with cool running water for 15 minutes. Remove contact lenses if present. Get medical attention.
<b>In Case of Skin Contact</b>	Rinse thoroughly with cool running water. Remove contaminated clothing. Get medical attention if irritation occurs or persists.
<b>If Ingested</b>	Rinse mouth with water. <b>Do not induce vomiting.</b> Obtain medical attention if feeling unwell.
<b>If Inhaled</b>	Move person to fresh air. If breathing difficulty persists, consult a physician.
<b>Notes to Physician</b>	Symptoms may be delayed.
<b>General advice</b>	Seek medical attention if feeling unwell. Show the SDS to the physician in attendance.

### 5. Fire-fighting Measures

<b>Flammable properties</b>	None
<b>Extinguishing media</b>	Use methods appropriate to the source of the fire.
<b>Protection of firefighters</b>	Firefighters should wear protective clothing including self contained breathing apparatus
<b>Hazardous combustion products</b>	May include and not limited to oxides of carbon, sulfur, and nitrogen.
<b>Unusual Fire, Explosion hazards</b>	Containers may melt or rupture from heat of fire. May form combustible mixtures with air when heated.

### 6. Accidental Release Measures

<b>Personal precautions</b>	Keep unnecessary personal away. Do not touch or walk through spilled material.
<b>Methods for containment</b>	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.

**Environmental precautions**

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.  
 Avoid spills. Keep out of waterways.

**7. Handling and Storage**

**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
Sodium carbonate	497-19-8	Not available	Not available
Potassium silicate	1312-76-1	Not available	TWA: 2 mg/m <sup>3</sup>
Sodium tripolyphosphate	7758-29-4	Not available	TWA: 10 mg/m <sup>3</sup>
(Nonylphenoxy) polyethylene oxide	127087-87-0	Not available	TWA: 10 mg/m <sup>3</sup>
Aromatic phosphate ester	Proprietary	Not available	Not available
Sodium xylene sulfonate	1300-72-7	Not available	Not available
Potassium hydroxide	1310-58-3	Not available	TWA: 2 mg/m <sup>3</sup>

**Engineering controls**

Local exhaust ventilation required if used indoors.  
 Eye wash facility available.

**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**

Wear protective gloves.

**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**

<b>Appearance/form</b>	Clear liquid
<b>Color</b>	Light strawberry
<b>Odor</b>	mild odor
<b>Odor threshold</b>	Not established
<b>pH</b>	11.8-12.8 (concentrate)
<b>Melting/freezing point</b>	Not established
<b>Initial Boiling point</b>	≈212° F. ( 100° C.)
<b>Flash point</b>	None
<b>Evaporation rate</b>	Not established
<b>Flammability</b>	Not flammable
<b>Upper/lower flammability or Explosive limits</b>	Not applicable
<b>Vapor pressure</b>	Not established

**Vapor density** Not established  
**Specific gravity/density** 1.07-1.09  
**Solubility in water** Complete  
**VOC** < 1%

**% Volatile** Approx 84%  
**Other Safety Information**

## 10. Stability and Reactivity

**Reactivity** Not known to be reactive.  
**Chemical Stability** Stable under normal storage conditions.  
**Hazardous reactions** None known.  
**Conditions to avoid** Do not mix with other chemicals.  
**Incompatible materials** Strong acids, strong oxidizing agents, soft metals.  
**Hazardous decomposition products** May include but not limited to oxides of carbon, sulfur, and nitrogen.  
**Hazardous polymerization** Will not occur.

## 11. Toxicological Information

**Ingredients**

Sodium carbonate	<b>LC50</b> 800 mg/m <sup>3</sup> (guinea pig)
Potassium silicate	> 2.06 mg/m <sup>3</sup> (rat)
Sodium tripolyphosphate	No data available
(Nonylphenoxy) polyethylene oxide	No data available
Aromatic phosphate ester	No data available
Sodium xylene sulfonate	No data available
Potassium hydroxide	No data available

**Ingredients**

Sodium carbonate	<b>LD50</b> 2,800 mg/kg (Oral-rat), > 2,000 mg/kg (Dermal-rabbit)
Potassium silicate	> 5,000 mg/kg (Oral-rat), > 5,000 mg/kg (Dermal-rat)
Sodium tripolyphosphate	3,900 mg/kg (Oral-rat), 4,640 mg/kg (Dermal-rabbit)
(Nonylphenoxy) polyethylene oxide	3,989-5,000 mg/kg (Oral-rat), 3,228-5,000 mg/kg (Dermal-rabbit)
Aromatic phosphate ester	No data available
Sodium xylene sulfonate	No data available
Potassium hydroxide	No data available

<b>Eye</b>	Causes serious eye irritation.
<b>Skin</b>	Causes skin irritation.
<b>Ingestion</b>	Not expected to be harmful upon ingestion.
<b>I</b> <b>halation</b>	May be irritating to the respiratory system.
<b>Sensitization</b>	No data available.
<b>Chronic effects of short and long</b> <b>Term exposure</b>	Prolonged exposure to skin may cause drying, defatting and irritation.
<b>Carcinogenicity</b>	Does not contain ingredients considered carcinogenic by NTP, IARC, or OSHA.
<b>Mutagenicity</b>	No data available.
<b>Reproductive effects</b>	No data available.
<b>Teratogenicity</b>	No data available.

## 12. Ecological Information

**Eco-toxicity**

Ecological effects for this product have not been analyzed. However, if spilled this products ingredients are harmful to aquatic life and may have long lasting effects.

**Aquatic toxicity**

Sodium carbonate	LC50 Fish (Bluegill sunfish): 300 mg/l 96 hour EC50 Ceriodaphnia: 200-227 mg/l 48 hour
Potassium silicate	LC50 Fish (Leuciscus idus): > 146 mg/l 48 hour
(Nonylphenoxy) polyethylene oxide	LC50 Fish (fathead minnow): 1.6-24 mg/l 96 hour EC50 Daphnia magna: 23.1-71.8 mg/l 48 hour

**Environmental effects**

The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

**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.

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### 13. Disposal Considerations

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

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### 14. Transport Information

<b>Basic shipping requirements:</b>	Not DOT regulated
<b>Proper shipping name:</b>	
<b>Hazard class</b>	
<b>UN number</b>	
<b>Packing group</b>	
<b>Special provisions</b>	
<b>Packaging exceptions</b>	

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### 15. Regulatory Information

<b>U.S federal regulations</b>	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
<b>TSCA</b>	All ingredients are listed on the Toxic Substances Control Act or are exempt from listing.
<b>CERCLA Super Fund 40CFR117.302</b>	Product contains a material with a Reportable Quantity (RQ): None
<b>SARA Title III Section 311&amp;312</b>	Immediate (Acute) Health Hazard: Sodium carbonate CAS#497-19-8 (Nonylphenoxy) polyethylene oxide CAS#127087-87-0 Sodium xylene sulfonate CAS#1300-72-7 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: None

**States Right to Know**                      Reportable chemicals:  
 Potassium hydroxide CAS#1310-58-3

**California Proposition 65**                      This product does contain chemicals known to the state of California to cause  
 cancer:  
 1,4-Dioxane CAS# 123-91-1 < 1.0 PPM

<b>Inventory Status</b>	<b>Inventory Name</b>	<b>On Inventory (Yes/No)*</b>
<b>Countries</b>		
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

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### HMIS RATING

HMIS Legend	
Severe            4	Health                    3
Serious           3	Flammability           0
Moderate        2	Reactivity               0
Slight            1	Personal Protection   0
Minimal          0	

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 However, neither the above named supplier nor 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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