

SAFETY DATA SHEET

1. Product and Company Identification

Product Name	SURGE POWDER DETERGENT
Product Number	201
Product Type	Mixture
Product Use	Laundry detergent for commercial use.
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
Email	customerservice@nationalpurity.com

2. Hazards Identification

GHS Classification in accordance with 29 CFR 1910 OSHA HCS

- Acute toxicity, Oral (Category 4) H302
- Skin corrosion/irritation, (Category 1B) H314, H317
- Serious eye damage/irritation, (Category 1) H318
- Respiratory irritation (Category 3) H335
- Acute aquatic toxicity, (Category 3) H402

GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard Statements

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage
- H335 May cause respiratory irritation.
- H401 Toxic to aquatic life.

Precautionary Statements

Prevention

- P260 Do not breath mist, vapors, or spray.
- P264 Wash hand and exposed skin thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P270 Do not eat, drink or smoke when using this product.
- P261 Avoid breathing dust.
- P271 Use only outdoors or in a well ventilated area.
- P273 Avoid release to the environment.

Response

P301+P312	IF SWALLOWED, immediately call a POISON CENTER/doctor. DO NOT INDUCE VOMITING. Drink 1-2 glasses of water or milk. Never give anything to an unconscious person.
P303+361+P353+P363	IF ON SKIN, immediately take off all contaminated clothing. Rinse skin with water or shower if appropriate. Wash contaminated clothing before reuse.
P310	Immediately call a POISON CONTROL/doctor.
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 keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if experiencing difficulty breathing or feeling unwell.

Storage/Disposal

P403+233	Store in a well ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local, state and 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. Nonhazardous 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	55-65%
Sodium metasilicate anhydrous	6834-92-0	H302, H314, H318, H402	25-30%
Nonylphenol, ethoxylated	9016-45-9	H320, H313, H401	2-7%
Sodium tripolyphosphate	7758-29-4	H315, H319	2-8%

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 possible. Get medical attention.
In Case of Skin Contact	Flush with cool water. If irritation occurs, get medical attention.
If Ingested	Drink one or two glasses of water. Do not induce vomiting. Obtain medical attention. Never give anything by mouth to an unconscious person.
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	Not flammable.
Extinguishing media	Use materials designed for source of fire. Treat as an alkaline material.
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, 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. Do not touch damaged containers or spilled containers unless wearing protective clothing.
Methods for containment	Prevent entry into waterways, sewers.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Small spills may be picked up with suitable tool and placed in a container for disposal. Large spills may be shoveled up and placed in a suitable container for disposal. Residues can be rinsed with water and passed to sanitary sewer. Keep out of waterways. Dispose of contents/containers in accordance with local, state, and federal regulations.

7. Handling and Storage

Precautions for Safe Handling	Use good industrial hygiene practices when handling this material. Wash contaminated clothing before reuse.
Conditions for Safe Storage	Keep container closed when not in use. Keep out of reach of children. Store in cool dry place, locked up.

8. Exposure Controls and Personal Protection

Exposure Limits			
Ingredients	CAS#	OSHA PEL	ACGIH TLV
Sodium carbonate	497-19-8	Not available	
Sodium metasilicate	6834-92-0	15 mg/m ³ TWA (Total dust)	
Nonylphenol, ethoxylated	9016-45-9	Not available	
Sodium tripolyphosphate	7758-29-4	Not available	10 mg/m ³ TWA
Engineering controls	Exhaust ventilation recommended.		
Personal protective equipment			
Eye/Face protection	Wear goggles or safety glasses with side shields if splash conditions exist.		
Hand protection	Wear rubber or neoprene safety gloves.		
Skin and body	As required by employer code.		
Respiratory protection	Use a dust mask or 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. Wash hands well before breaks and immediately after handling the product.		

9. Physical and Chemical Properties

Information on basic physical and chemical properties	
Appearance/form	Powder
Color	White
Odor	Odorless
Odor threshold	Not established
pH	> 11.5 (1% solution)
Melting/freezing point	Not established
Initial Boiling point	>212° F (100° C.)
Flash point	None
Evaporation rate	Not established
Flammability	Not flammable
Upper/lower flammability or	Not established
Explosive limits	
Vapor pressure	Not established
Vapor density	Not established

Specific gravity/density	Not established
Vapor density	Not established
Solubility in water	Complete
VOC	< 1.0%
% Volatile	< 1.0%
Other Safety Information	

10. Stability and Reactivity

Reactivity	Not reactive under normal use or storage.
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 and amines.
Hazardous decomposition products	May include but not limited to oxides of carbon, phosphorous, and nitrogen.
Hazardous polymerization	Will not occur

11. Toxicological Information

Ingredients	LC50
Sodium carbonate	2.30 mg/l (Inhalation-rat) 2 hours
Sodium metasilicate	Not available
Nonylphenol, ethoxylated	Not available
Sodium tripolyphosphate	Not available
Ingredients	LD50
Sodium carbonate	2800 mg/kg (Oral-rat), > 2000 mg/kg (Dermal-rabbit)
Sodium metasilicate	1153 mg/kg (Oral-Rat), 770 mg/kg (Oral-mouse)
Nonylphenol, ethoxylated	3310 mg/kg (Oral-rat), >2000mg/kg (dermal-rabbit)
Sodium tripolyphosphate	500 mg/kg (skin-rabbit) 24 hour
Effects of acute exposure	
Eye	Will cause eye serious damage
Skin	Will cause severe skin burns
Ingestion	Harmful if swallowed. May cause corrosive damage to mouth, throat and stomach.
Inhalation	May cause irritation of nose and throat.
Sensitization	Not known.
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, IARC, or OSHA.
Mutagenicity	Nonhazardous.
Reproductive effects	Nonhazardous.
Teratogenicity	Nonhazardous.

12. Ecological Information

Eco-toxicity	Ecological effects for this product have not been analyzed. However, if spilled this product and any contaminated soil may be harmful to aquatic life. Sodium metasilicate is harmful to aquatic life in very low concentrations.
Environmental effects	LC50 (Mosquito fish) = 530mg/L. LC50 (Waterflea) 48 hours = 113mg/L
Aquatic toxicity	Not Available
Sodium metasilicate	
Nonylphenol, ethoxylated	LC 50 Fish: 10mg/L 96 hours
Persistence and Degradability	
Sodium metasilicate	Will persist in aquatic and terrestrial systems
Bioaccumulation/accumulation	Not Available

Partition coefficient	Not Available
Mobility in environmental media	Not Available
Chemical fate information	Not Available
Other adverse effects	Not Available

13. Disposal Considerations

Waste codes	Not Available
Disposal instructions	Dispose in accordance with local, state, and federal regulations
Wastes from residues/unused product	Containerize. 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:	
Proper shipping name	Corrosive solid, basic, inorganic n.o.s. (contains sodium metasilicate)
Hazard class	8
UN number	UN3262
Packing group	PG III
Packaging	49CFR173.154 Limited quantities: Inner packaging of 1 gal or less are excepted from labeling unless offered for transportation by aircraft.
Special provisions	Not applicable

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.	
Cercla Super Fund 40CFR117.302 40 CFR 117.302	This product does not contain a material with a Reportable Quantity (RQ)	
SARA Title III Section 311&312 SARA Title III Section 313	Immediate (Acute) Health Hazard Product does not contain substances on the list of Toxic Chemicals per 40CFR372	
States Right to Know	Reportable chemicals: Sodium metasilicate	
California Proposition 65	This product contains residuals chemicals known to the state of California to cause cancer, birth defects or reproductive effects: Ethylene Oxide (CAS #: 75-21-4) 1,4-Dioxane (CAS #: 123-91-1)	
Inventory Status	Inventory Name	On Inventory (Yes/No)*
Countries		
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	3
Flammability	0
Reactivity	0
Personal Protection	B

Disclaimer

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