

SAFETY DATA SHEET

1. Product and Company Identification

Product Name	PRESTIGE ALUMINUM-SAFE DISHMACHINE DETERGENT
Product Number	104
Product Type	Mixture
Product Use	Dish machine Detergent for Soft Metals
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

- Corrosive to Metals (Category 4) H290
- Skin Irritation (Category 3) H315, H319
- Eye Damage (Category 3) H318
- Acute Toxicity, Oral (Category 3) H301
- Skin irritation, (Category 3) H314, H315
- Acute Toxicity, Environment (Category 4) H402
- Chronic Toxicity, Environment (Category 4) H412

GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard Statements

- | | |
|------|---|
| H290 | May be corrosive to metals |
| H301 | Toxic if swallowed |
| H314 | Causes severe skin burns and eye damage |
| H315 | Causes skin irritation |
| H318 | Causes serious eye damage |
| H319 | Causes mild skin irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H402 | Harmful to aquatic life. |
| H412 | Harmful to aquatic life with long lasting effects. |

Precautionary Statements

Prevention

P264
 P270
 P280
 P261
 P273

Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.
Avoid breathing mist/vapors/spray.
Avoid release to the environment.

Response

P301+P312+P330

IF SWALLOWED, immediately call a POISON CENTER/doctor. DO NOT INDUCE VOMITING. Rinse mouth with water.

P332+P313

If skin irritation occurs, get medical 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 advise and attention

P304+P340+P312

IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Storage/Disposal

P501

Dispose of contents/container in accordance with local/regional/federal regulations.

3. Composition/Information on Ingredients

The following are criteria for listing components in this section: 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	%
Silicic acid, disodium salt; Disodium metasilicate	6834-92-0	H290, H314, H335	1-10%
Tetrasodium ethylenediamine tetraacetate	64-02-8	H290, H315, H318, H332, H373	< 1-5%
Potassium Hydroxide	1310-58-3	H290, H301, H318, H402, H412	10-20%

4. First Aid Measures

Description of First Aid Procedures

General Advice

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 immediate medical attention.

In Case of Skin Contact

Rinse thoroughly with cool running water. Remove contaminated clothing. Get medical attention if irritation persists.

If Ingested

Rinse mouth with water. **Do not induce vomiting.** Obtain immediate medical attention. Never give anything by mouth to an unconscious person. Move person to fresh air. If breathing difficulty persists, consult a physician. Symptoms may be delayed.

If Inhaled

Notes to Physician

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, 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 personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled containers unless wearing protective Clothing.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways and 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. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system

7. Handling and Storage

Precautions for Safe Handling	Use good industrial hygiene practices when handling this material. Avoid contact with eyes, skin and clothing. Wash contaminated clothing before reuse.
Conditions for Safe Storage	Keep container closed when not in use. Keep out of reach of children.

8. Exposure Controls and Personal Protection

Exposure Limits	CAS#	OSHA PEL	ACGIH TLV
Ingredients Silicic acid, disodium salt; Disodium metasilicate	6834-92-0	N/A	N/A
Tetrasodium ethylenediamine tetraacetate	64-02-8	N/A	N/A
Potassium hydroxide	1310-58-3	(Vacated) Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³
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	Wear impermeable gloves to prevent contact with skin.		
Skin and body	As required by employer code.		
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 the 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	Clear liquid
Color	Red
Odor	Caustic/Characteristic
Odor threshold	Not established
pH	> 14.00 (concentrate)
Melting/freezing point	Not established
Initial Boiling point	≈212° F. (100° C.)
Flash point	Not established
Evaporation rate	Not established
Flammability	Not flammable
Upper/lower flammability or Explosive limits	Not applicable
Vapor pressure	Not established
Vapor density	Not established
Specific gravity/density	1.20-1.24
Solubility in water	Complete
VOC	Not established
% Volatile	Not established

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. Avoid leaving product above 45C for extended periods of time.
Incompatible materials	Strong acids, alkalis, strong oxidizing agents.
Hazardous decomposition products	May include but not limited to oxides of carbon, and nitrogen.
Hazardous polymerization	Will not occur

11. Toxicological Information

Ingredients	LC50
Silicic acid, disodium salt; Disodium metasilicate	210 mg/l, 96 h (Brachydanio rerio)
Tetrasodium ethylenediamine tetraacetate	> 100 mg/l, 96 h, (fathead minnow); 157 - 2,070 mg/l, 96 h (Bluegill sunfish)
Potassium hydroxide	80 mg/l, 96 h, (Gabusia affinis)

Ingredients	LD50
Silicic acid, disodium salt; Disodium metasilicate	1152-1349 mg/kg Oral (Rat), > 5,000 mg/kg Acute (Rat)
Tetrasodium ethylenediamine tetraacetate	3,030mg/kg Oral (Rat), > 5000mg/kg Dermal (Rabbit)
Potassium hydroxide	333-384mg/kg (Rat)

Eye	Causes eye irritation.
Skin	May cause mild skin irritation.
Ingestion	May be harmful if swallowed.
Inhalation	May cause respiratory irritation of nose and throat.

Sensitization	Nonhazardous.
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	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's ingredients are harmful to aquatic life and may have long lasting effects.
Silicic acid, disodium salt; Disodium metasilicate	EC50 Daphnia magna: > 1700mg/l, 48h
Tetrasodium ethylenediamine tetraacetate	No data available
Potassium hydroxide	No data available
Environmental effects	Not Available
Aquatic toxicity	Harmful to aquatic organisms
Persistence and Degradability	Readily Biodegradable
Bioaccumulation/accumulation	Not Available
Partition coefficient	Not Available
Mobility in environmental media	Will likely be mobile in the environment due to its water solubility
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	Contain. Rinse the 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:	UN3266, UN3267 CORROSIVE LIQUID, Basic, Inorganic, N.O.S. (Contains Potassium Hydroxide, Sodium Metasilicate, Anhydrous), 8, II
Hazard class	Class 8
UN number	UN3266/UN3267
Packing group	II
Special provisions	N/A
Packaging exceptions	49CFR173.154, Limited quantity of 0.3 gallon excepted from labeling for ground shipments.

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.
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- TSCA** All ingredients are commercially available and presumed to be listed by manufacturer
- CERCLA Super Fund 40 CFR 117.302** Product contains a material with a Reportable Quantity (RQ)
- SARA Title III Section 311&312** Immediate (Acute) Health Hazard: Potassium Hydroxide (CAS #: 1310-58-3), Silicic acid, disodium salt; Disodium metasilicate (CAS #: 6834-92-0), Tetrasodium ethylenediamine tetraacetate (CAS #: 64-02-8)
- SARA Title III Section 313** Tetrasodium ethylenediamine tetraacetate is subject to the reporting requirements of section 313 of Title III SARA.
- States Right to Know**
CA Proposition 65: This product does not contain chemicals that are known to cause cancer or reproductive and birth defects according to the state of California.
Massachusetts Right To Know: Potassium Hydroxide (CAS: 1310-58-3)
New Jersey Right To Know: Potassium Hydroxide (CAS: 1310-58-3)
Pennsylvania Right To Know: Potassium Hydroxide (CAS: 1310-58-3)
Rhode Island Right To Know: Potassium Hydroxide (CAS: 1310-58-3)

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	Health	3
Serious	3	Flammability	0
Moderate	2	Reactivity	1
Slight	1	Personal Protection	B
Minimal	0		

Disclaimer

To the best of our knowledge, the information included herein is accurate. 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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Reason for Update New Product