



AQ-240 Cleaning Solution Safety Data Sheet

Medical Equipment Washing & Decontamination Systems



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

SAFETY DATA SHEET

1. Product and Company Identification

Product Name	AQUAPHASE AQ-240 CLEANING SOLUTION
Product Number	P678
Product Type	Mixture
Product Use	Detergent designed specifically for use in the Aquaphase Wheelchair Washing Machine.
Manufacturer/Supplier	National Purity, LLC. 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

- Acute toxicity, Oral (Category 3) H301
- Skin corrosion/irritation, (Category 1B) H314
- Eye damage/irritation, (Category 1) H318
- Acute toxicity, inhalation (Category 4) H332
- Acute aquatic toxicity, (Acute 2) H401
- Chronic aquatic toxicity, (Chronic 3) H412

GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard Statements

- H301 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage
- H332 Harmful if inhaled.
- H401 Toxic to aquatic life
- H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention

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



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Response
P301+P310+P330

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

P305+P351+P338

IF IN EYES, rinse cautiously for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

P310
P304+P340+P312

Immediately call a POISON CENTER/doctor for medical assistance.
IF INHALED: remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if feeling unwell.

Storage/Disposal
P405
P501

Store locked up.
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. 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	%
Potassium hydroxide	1310-58-3	H301, H314, H318, H402, H412	10-20%
Sodium silicate	1344-09-8	H302, H315, H320, H333, H402, H412	10-15%
Sodium gluconate	527-07-1	H316, H320	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 immediate medical attention.

In Case of Skin Contact If Ingested

Flush with cool water. If irritation occurs, get medical attention. Rinse mouth with water. **Do not induce vomiting.** Obtain medical attention. Never give anything by mouth to an unconscious person.

If Inhaled Notes to Physician General advice

Move person to fresh air. If breathing difficulty persists, consult a physician. Symptoms may be delayed. Seek medical attention if feeling unwell. Show the SDS to the physician in attendance.

5. Fire-fighting Measures

Flammable properties Extinguishing media Protection of firefighters

Not flammable
Use materials designed for source of fire. Treat as an alkaline material. Firefighters should wear protective clothing including self contained breathing apparatus.

Hazardous combustion products Unusual Fire, Explosion hazards

May include and not limited to oxides of carbon, and nitrogen, and sulfur. 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.



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Methods for containment
Methods for cleaning up

Stop leak if you can do so without risk. Prevent entry into waterways, sewers. Before attempting clean up, refer to hazard data given above. Small spills may be mopped up and rinsed. Large spills may be absorbed with non reactive absorbent and placed in suitable, covered, labeled containers. Rinse area with water. Never return spill to original container for reuse.

Environmental precautions

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. Avoid contact with skin and eyes. Avoid inhalation of mists or vapors. 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, well ventilated, dry place, locked up.

8. Exposure Controls and Personal Protection

Exposure Limits

Ingredients

Potassium hydroxide
Sodium silicate
Sodium gluconate

CAS#

1310-58-3
1344-09-8
527-07-1

OSHA PEL

Not available
Not available
Not available

ACGIH TLV

2mg/m³ TLV
Not available
5 mg/m³ TLV

Engineering controls

Local exhaust ventilation recommended.

Personal protective equipment

Eye/Face protection

Wear safety glasses with side shields if splash conditions exist. Have eye wash water and shower facilities available in work area.

Hand protection

Wear safety gloves.

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 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

Amber

Odor

Odorless

Odor threshold

Not established

pH

14 (concentrate)

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 applicable

Explosive limits

Vapor pressure

Not established

Vapor density

Not established

Specific gravity/density

1.344

Vapor density

Not established

Solubility in water

Complete

VOC

< 1.0%

% Volatile

Approx. 77%

Other Safety Information



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10. Stability and Reactivity

Reactivity	No data available
Chemical Stability	Stable under normal storage conditions.
Hazardous reactions	None known.
Conditions to avoid	Do not mix with other chemicals. Keep away from sources of heat.
Incompatible materials	Strong acids, alkalis, strong oxidizing agents. Contact with metals like Aluminum, tin, and zinc liberates hydrogen gas. Can react vigorously with halogens.
Hazardous decomposition products	May include but not limited to oxides of carbon, and nitrogen.
Hazardous polymerization	Will not occur.

11. Toxicological Information

Ingredients	LC50
Potassium hydroxide	Not available
Sodium silicate	Not available
Sodium gluconate	
Ingredients	LD50
Potassium hydroxide	Not available
Sodium silicate	1500-3200 mg/kg (Oral-rats)
Sodium gluconate	> 2000 mg/kg (Oral-rat)
Effects of acute exposure	
Eye	Will cause severe eye 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	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, IARC, 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 and any contaminated soil may be toxic to aquatic life and have long lasting effects.
Environmental effects	No data available.
Aquatic toxicity	The high pH of this product is acutely harmful to aquatic life.
Potassium hydroxide	No data available
Sodium silicate	LC50 Daphnia magna: 246 mg/l 96 hours
	LC50 Fish (Gambusia affinis): 2320 mg/l 96 hours
	LC50 Fish: > 1000 mg/l 96 hour (predicted)
Sodium gluconate	LC50 Daphnia magna: > 1000 mg/l 96 hour (Predicted)
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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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 immediate medical attention.
In Case of Skin Contact If Ingested	Flush with cool water. If irritation occurs, get medical attention. Rinse mouth with 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. Symptoms may be delayed.
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	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, and sulfur.
Unusual Fire, Explosion hazards	Containers may melt or rupture from heat of fire. May form combustible mixtures with air when heated.

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Vapor density

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Specific gravity/density

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% Volatile

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Sensitization	No data available.
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Carcinogenicity	Does not contain ingredients considered carcinogenic by NTP, IARC, or OSHA.
Mutagenicity	No data available.
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16. Other Information

HMIS RATING HMIS Legend

Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	3
Flammability	0
Reactivity	1
Personal Protection	B

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.

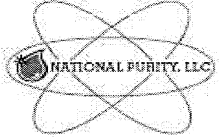
Issue date
Supersedes date
Reason for update
Expiration date

March 5, 2015
Previous issues
Conform to GHS OSHA HCS 2012
March 5, 2018



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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 liquid, n.o.s. (Contains potassium hydroxide, sodium silicate), 8, UN1760, PG II
Hazard class	Corrosive liquid, 8
UN number	UN1760
Packing group	PG II
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 or are exempt from listing.	
Cercla SuperFund 40CFR117.302 Potassium hydroxide	This product contains a material with a Reportable Quantity (RQ) RQ= 25,000 Lbs.	
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: Potassium hydroxide,	
California Proposition 65	This product does not contain chemicals known to the state of California to cause cancer.	
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.