Printing date 07/23/2024

Reviewed on 07/23/2024

1 Identification

- · Product identifier
- Trade name: <u>Cell Wash Standard #1</u> 20.0 ppm Ca, Fe, Mg in 10% v/v HNO₃
- · Article number: DCP873
- Details of the supplier of the safety data sheet • Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225

DEER PARK, TX 77536 USA 800-256-2586

- Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org
- *Emergency telephone number:* Chemtrec: 800-424-9300 Canutec: 613-996-6666

2 Hazard(s) identification

· Classification of the substance or mixture



Skin Corrosion 1A H314 Causes severe skin burns and eye damage.

Eye Damage 1 H318 Causes serious eye damage.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



- · Signal word Danger
- · Hazard-determining components of labeling:
- Nitric Acid
- Hazard statements
- Causes severe skin burns and eye damage.
- · Precautionary statements

Do not breathe dusts or mists.

Wash thoroughly after handling.

- Wear protective gloves/protective clothing/eye protection/face protection.
- If swallowed: Rinse mouth. Do NOT induce vomiting.
- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.

Specific treatment (see on this label).

(Contd. on page 2)

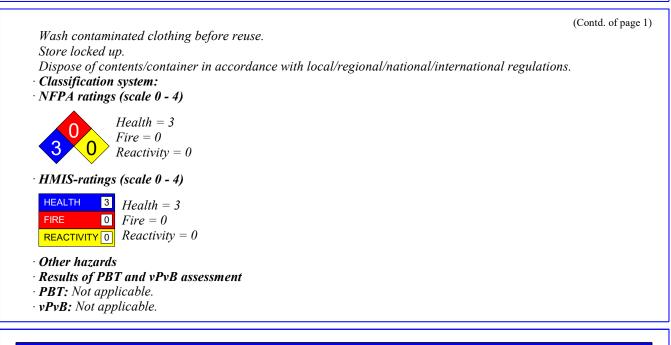


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3 Composition/information on ingredients

•	Chemical	characterization:	Mixtures
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• **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous comp		
CAS: 7697-37-2	Nitric Acid	10.0%
• Table of Nonhaza	rdous Ingredients	
CAS: 7732-18-5	Water	89.988%
CAS: 7782-61-8	Ferric Nitrate	0.004%
CAS: 13446-18-9	Magnesium Nitrate	0.004%
CAS: 13477-34-4	Calcium Nitrate Tetrahydrate	0.004%

4 First-aid measures

- Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- *After swallowing:* Drink copious amounts of water and provide fresh air. Immediately call a doctor. *Information for doctor:*
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

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5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

	ons, protective equipment and emergency procedures	
1 2	protective device.	
	quipment. Keep unprotected persons away.	
• Environmental pr Dilute with plenty		
	nter sewers/ surface or ground water.	
	erial for containment and cleaning up: I-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Use neutralizing a		
	ated material as waste according to section 13.	
Ensure adequate v		
· Reference to othe		
	information on safe handling.	
	information on safe nanating.	
	disposal information.	
	Criteria for Chemicals	
· PAC-1:	chiera jor chemicals	
		0.16
	Nitric Acid	0.16 ppm
01101 / 01 01 0	Ferric Nitrate	22 mg/m ³
CAS: 13446-18-9	Magnesium Nitrate	16 mg/m³
CAS: 13477-34-4	Calcium Nitrate Tetrahydrate	12 mg/m ³
· PAC-2:		
CAS: 7697-37-2	Nitric Acid	24 ppm
CAS: 7782-61-8	Ferric Nitrate	110 mg/m ³
CAS: 13446-18-9	Magnesium Nitrate	180 mg/m³
CAS: 13477-34-4	Calcium Nitrate Tetrahydrate	130 mg/m ³
· PAC-3:		
CAS: 7697-37-2	Nitric Acid	92 ppm
CAS: 7782-61-8	Ferric Nitrate	640 mg/m³
CAS: 13446-18-9	Magnesium Nitrate	1,100 mg/m³
CAS: 13477-34-4	Calcium Nitrate Tetrahydrate	770 mg/m³

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(Contd. of page 3)

7 Handling and storage

- · Handling:
- · Precautions for safe handling
- *Ensure good ventilation/exhaustion at the workplace.*
- Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

CAS: 7697-37-2 Nitric Acid

PEL Long-term value: 5 mg/m³, 2 ppm

REL Short-term value: 10 mg/m³, 4 ppm Long-term value: 5 mg/m³, 2 ppm

TLV Short-term value: (4) NIC-0.025 ppm Long-term value: (2) ppm NIC-A4

• Additional information: The lists that were valid during the creation were used as basis.

- Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.
- Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. • Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:

Tightly sealed goggles

· Body protection: Protective work clothing

9 Physical and chemical properties

General Information Appearance:		
Form:	Liquid	
Color:	Clear	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	<2	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	83 °C (181.4 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	1.05032 g/cm³ (8.76492 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	

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	(Contd. e	of page 5
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
· Solvent content: Water: VOC content:	90.0 % 0.00 % 0.0 g/l / 0.00 lb/gal	
Solids content:	0.0 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- *Incompatible materials:* No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Inhalative LC50/4h 30 mg/l

· Primary irritant effect:

- on the skin: Strong caustic effect on skin and mucous membranes.
- on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

• Sensitization: No sensitizing effects known.

• Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

·NTP (National Toxicology Program)

None of the ingredients is listed.

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· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number	
· DOT, IMDG, IATA	UN3264
· UN proper shipping name	
$\cdot DOT$	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid)
· IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nit
- /	Acid)

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Trade name:	me: Cell Wash Standard #1		
	20.0 ppm Ca, Fe, Mg in 10% v/v HNO ₃		

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· Transport hazard class(es)	
·DOT	
8	
Class	0 Company of the terms of
· Class · Label	8 Corrosive substances 8
	0
· IMDG, IATA	
ES	
8	
· Class	8 Corrosive substances
· Label	8
· Packing group	
· DOT, IMDG, IATA	II
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Corrosive substances
· Hazard identification number (Kemler code)	
· EMS Number:	F-A,S-B
· Segregation groups	(SGG1) Acids
· Stowage Category	B SW2 Close of living sugartous
· Stowage Code	SW2 Clear of living quarters.
• Transport in bulk according to Annex II of	N7 / 1· 11
MARPOL73/78 and the IBC Code	Not applicable.
• Transport/Additional information:	
·DOT	
· Quantity limitations	On passenger aircraft/rail: 1 L
	On cargo aircraft only: 30 L
·IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O
	(NITRIC ACID), 8, II

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

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Section 355 (extremely hazardous substances): CAS: 7697-37-2 Nitric Acid Section 313 (Specific toxic chemical listings): CAS: 7697-37-2 Nitric Acid CAS: 7697-37-2 Nitric Acid CAS: 7782-61-8 Ferric Nitrate CAS: 13446-18-9 Magnesium Nitrate CAS: 13446-18-9 Magnesium Nitrate CAS: 13477-34-4 Calcium Nitrate Tetrahydrate TSCA (Toxic Substances Control Act): Water Note Calcium Nitrate Tetrahydrate Hazardous Air Pollutants None of the ingredients is listed. Proposition 65 Chemicals known to cause cancer: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for females:	Sara	(Contd. of page
CAS: 7697-37-2 Nitric Acid Section 313 (Specific toxic chemical listings): CAS: 7697-37-2 Nitric Acid CAS: 7782-61-8 Ferric Nitrate CAS: 13446-18-9 Magnesium Nitrate CAS: 13446-18-9 Magnesium Nitrate CAS: 13447-34-4 Calcium Nitrate Tetrahydrate TSCA (Toxic Substances Control Act): ////////////////////////////////////	~	
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None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

• *Hazard-determining components of labeling: Nitric Acid*

· Hazard statements

Causes severe skin burns and eye damage.

• **Precautionary statements** Do not breathe dusts or mists. Wash thoroughly after handling.

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(Contd. of page 9) Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see on this label). Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. • Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Environment protection department.

· Contact: Date of Preparation / Last Revision: · Date of preparation / last revision Revision 1.2, 07-23-2024: Reviewed SDS for accuracy. STN/GW Revision 0.0, 08-27-2020: Creation date for SDS. STN 07/23/2024 / 1.1 · Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Skin Corrosion 1A: Skin corrosion/irritation - Category 1A Eye Damage 1: Serious eye damage/eye irritation - Category 1 • * Data compared to the previous version altered.