Printing date 05/23/2024

Reviewed on 05/23/2024

# **1** Identification

- · Product identifier
- Trade name: <u>Mercuric Nitrate 0.3419 Normal</u> 1 ml = 20 mg NaCl, NIST Traceable Solution
- · Article number: ND411
- 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 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	
GHS06 Skull and crossbones	
Acute Toxicity - Oral 3	H301 Toxic if swallowed.
Acute Toxicity - Dermal 2	H310 Fatal in contact with skin.
Acute Toxicity - Inhalation 2	H330 Fatal if inhaled.
	repeated exposure.
· · · · · · · · · · · · · · · · · · ·	repeated exposure.
GHS05 Corrosion	
Skin Corrosion 1A	H314 Causes severe skin burns and eye damage.
Eye Damage 1	H318 Causes serious eye damage.
<ul> <li>Label elements</li> <li>GHS label elements The product is classified and law</li> <li>Hazard pictograms</li> </ul>	beled according to the Globally Harmonized System (GHS).



(Contd. on page 2)

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REACTIVITY I       Reactivity = 0         Other hazards       Results of PBT and vPvB assessment         PBT: Not applicable.       PBT: Not applicable.		
Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
<b>Results of PBT and vPvB assessment</b> <b>PBT:</b> Not applicable.		
<b>PBT:</b> Not applicable.		
**		
vPvB: Not applicable.		
	w <b>B</b> : Not applicable.	

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

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		(Contd. of page 2)
· Dangerous com		
CAS: 7783-34-8	Mercuric Nitrate	5.597%
CAS: 7697-37-2	Nitric Acid	0.373%
	zardous Ingredients	
CAS: 7732-18-5	Water	94.03%

## 4 First-aid measures

## · Description of first aid measures

- · General information:
- Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

*Remove breathing apparatus only after contaminated clothing have been completely removed.* 

In case of irregular breathing or respiratory arrest provide artificial respiration.

## • After inhalation:

Supply fresh air or oxygen; call for doctor.

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:
- Do not induce vomiting; immediately call for medical help.

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.
- $\cdot$  Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

## **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

Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.
Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.
Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

*Use neutralizing agent. Dispose contaminated material as waste according to section 13.* 

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1 ml = 20 mg NaCl, NIST Traceable Solution

See Section 8 for See Section 13 fo		(Contd. of page 3)
· PAC-1:		
CAS: 7783-34-8	Mercuric Nitrate	0.13 mg/m <sup>3</sup>
CAS: 7697-37-2	Nitric Acid	0.16 ppm
· PAC-2:		
CAS: 7783-34-8	Mercuric Nitrate	0.17 mg/m <sup>3</sup>
CAS: 7697-37-2	Nitric Acid	24 ppm
· PAC-3:		
CAS: 7783-34-8	Mercuric Nitrate	48 mg/m <sup>3</sup>
CAS: 7697-37-2	Nitric Acid	92 ppm

## 7 Handling and storage

· Handling:

• Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. 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: 7783-34-8 Mercuric Nitrate

- PEL Long-term value: 0.1 mg/m<sup>3</sup> as Hg; see OSHA standard interpretation memo
- REL Long-term value: 0.05\* mg/m<sup>3</sup> Ceiling limit value: 0.1 mg/m<sup>3</sup> as Hg; \*Vapor; Skin
- TLV Long-term value: 0.025 mg/m<sup>3</sup> as Hg; A4; Skin; BEI

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CAS: 7697-37-2 N	itric Acid
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PEL Long-term value: 5 mg/m<sup>3</sup>, 2 ppm

REL Short-term value: 10 mg/m<sup>3</sup>, 4 ppm Long-term value: 5 mg/m<sup>3</sup>, 2 ppm

TLV Short-term value: (4) NIC-0.025\* ppm Long-term value: (2) ppm \*inh. fraction + vapor, NIC-A4

## · Ingredients with biological limit values:

CAS: 7783-34-8 Mercuric Nitrate BEI 20 µg/g creatinine LD50 Intraperitoneal: urine Time: prior to shift

LD50: Mercury

• 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.

Store protective clothing separately.

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 • 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

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# Safety Data Sheet acc. to OSHA HCS

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· Body protection: Protective work clothing

Physical and chemical proper		
Information on basic physical and c General Information	enemicai properties	
· 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.	
<b>Boiling point/Boiling range:</b>	100 °C (212 °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):	1.04654 g/cm³ (8.73338 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wate	pr): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	94.0 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	5.6 %	
• Other information	No further relevant information available.	

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## **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 (Acu	te Toxicity	v Estimate)
Oral	LD50	89.3 mg/kg

0.00	2200	0,10,10,10
		89.3 mg/kg
Inhalative	LC50/4h	0.89 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: Toxic* 

Corrosive

Irritant

Very toxic

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 (Internatio	onal Agency for Research on Cancer)
CAS: 7783-34-8	Mercuric Nitrate

#### · NTP (National Toxicology Program)

None of the ingredients is listed.

#### · 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.

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- · 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 3 (Self-assessment): extremely hazardous for water
- Do not allow product to reach ground water, water course or sewage system, even in small quantities.
- Must not reach bodies of water or drainage ditch undiluted or unneutralized.
- Danger to drinking water if even extremely 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	UN3287
UN proper shipping name	
DOT	Toxic liquid, inorganic, n.o.s. (Mercuric Nitrate)
·IMDG	TOXIC LIQUID, INORGANIC, N.O.S. (Mercuric Nitrate), MARIN POLLUTANT
·IATA	TOXIC LIQUID, INORGANIC, N.O.S. (Mercuric Nitrate)
· Transport hazard class(es) · DOT	
· Class	6.1 Toxic substances
· Label	6.1

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	(Contd. of page 3
·IMDG	
· Class · Label	6.1 Toxic substances 6.1
·IATA	
· Class	6.1 Toxic substances
· Label	6.1
· Packing group · DOT, IMDG, IATA	11
· Environmental hazards: · Marine pollutant:	Yes Symbol (fish and tree)
· Special precautions for user	Warning: Toxic substances
· EMS Number:	F-A,S-A
· Stowage Category	B GWD Cl Cl Cl Cl
· Stowage Code	SW2 Clear of living quarters.
• Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
· UN "Model Regulation":	UN 3287 TOXIC LIQUID, INORGANIC, N.O.S. (MERCURIC NITRATE), 6.1, II

# **15 Regulatory information**

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

· Sara

· Section 355 (extremely hazardous substances):	
CAS: 7697-37-2 Nitric Acid	
· Section 313 (Specific toxic chemical listings):	
CAS: 7783-34-8 Mercuric Nitrate	
CAS: 7697-37-2 Nitric Acid	
· TSCA (Toxic Substances Control Act):	
Water	ACTIVE
Nitric Acid	ACTIVE
· Hazardous Air Pollutants	
CAS: 7783-34-8 Mercuric Nitrate	
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A4

· Proposition 65	
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· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

 $\cdot$  Chemicals known to cause developmental toxicity:

CAS: 7783-34-8 Mercuric Nitrate

· Carcinogenic categories

· EPA (Environmental Protection Agency)

CAS: 7783-34-8 Mercuric Nitrate

· TLV (Threshold Limit Value)

CAS: 7783-34-8 Mercuric Nitrate

· NIOSH-Ca (National Institute for Occupational Safety and Health)

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: Mercuric Nitrate Nitric Acid · Hazard statements Toxic if swallowed. Fatal in contact with skin or if inhaled. Causes severe skin burns and eye damage. May cause damage to organs through prolonged or repeated exposure. · Precautionary statements Do not breathe dusts or mists. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. [In case of inadequate ventilation] wear respiratory protection. If swallowed: Immediately call a poison center/doctor. 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. Get medical advice/attention if you feel unwell.

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Specific treatment is urgent (see on this label). Take off immediately all contaminated clothing and wash it before reuse. Store in a well-ventilated place. Keep container tightly closed. 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, 05/23/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 02-22-2016: Creation date for SDS. STN 05/23/2024 · 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

BEI: Biological Exposure Limit Acute Toxicity - Oral 3: Acute toxicity – Category 3 Acute Toxicity - Dermal 2: Acute toxicity - Category 2 Skin Corrosion 1A: Skin corrosion/irritation - Category 1A Eye Damage 1: Serious eye damage/eye irritation - Category 1 Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) - Category 2

 $\cdot$  \* Data compared to the previous version altered.