Revision: August 22, 2020

• Product identifier • Trade name: Mercuric Nitrate Titrant, 0.0141N • Product code: MN9141SS • Recommended use and restriction on use • Recommended use: Laboratory chemicals • Resommended use: Laboratory chemicals • ApuaPhoenix Scientific • 800 Gitts Run Road • Hanover, PA 17331 • (717) 632-1291 • Inflo@aquaphoenix Scientific • 800 Gitts Run Road, • Hanover, PA 17331 • (717) 632-1291 • Emergency telephone number: Chemie Inc. • (800)255-3924 (North America) • 1 (813)248-0585 (International) • Classification of the substance or mixture Acute Tox. 4 H332 Harmful if inhaled. • STOR RE 2. H373 May cause damage to organs through prolonged or repeated exposure. • Label elements • Metard pictograms: • Mark Jabel elements • The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms: • Signal word: Warning • Hazard statements: H332 Harmful if inhaled. H333 May cause damage to organs through prolonged or repeated exposure. • Procuut is classified and labeled according to the Globally Harmonized System (GHS). • Hazard statements: H332 Harmful if inhaled. H333 May cause damage to organs through prolonged or repeated exposure. • Procuut is classified and labeled according to the globally Harmonized System (GHS). • Hazard statements: H332 Harmful if inhaled. H333 May cause damage to organs through prolonged or repeated exposure. • Procuut is classified and labeled according to the globally Harmonized System (GHS). • Procuut Science (Code Code (Figure 4) and (Fi	1 Identification	
<ul> <li>Product code: MN9141SS</li> <li>Recommended use and restriction on use</li> <li>Recommended use: Laboratory chemicals</li> <li>Restrictions on use: No relevant information available.</li> <li>Details of the supplier of the Safety Data Sheet</li> <li>Manufacturer/Supplier:</li> <li>AquaPhoenix Scientific, Inc.</li> <li>860 Gitts Run Road</li> <li>Hanover, PA 17331 USA</li> <li>Tel +1 (171/952-1291</li> <li>Toll-Free: (866)632-1291</li> <li>Info@aquaphoenixsci.com</li> <li>Distributor:</li> <li>AquaPhoenix Scientific</li> <li>860 Gitts Run Road,</li> <li>Hanover, PA 17331 (T17)</li> <li>Teree: (866)632-1291</li> <li>Info@aquaphoenixsci.com</li> <li>Distributor:</li> <li>AquaPhoenix Scientific</li> <li>860 Gitts Run Road,</li> <li>Hanover, PA 17331 (T17)</li> <li>Temergency telephone number:</li> <li>ChemTel Inc.</li> <li>(800)255-3924 (North America)</li> <li>+1 (813)248-0585 (International)</li> </ul> 2 Hazard(s) identification 2 Classification of the substance or mixture Acute Tox. 4 H332 Harmful if inhaled. STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. 4 Label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms: With Statements: H332 Harmful if inhaled. Signal word: Warning Hazard statements: H332 Harmful if inhaled. H324 -0450 OF GH508 Signal word: Warning Hazard pictograms: H324-P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304-P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P314 - P340 P314 - P340 Fail 4 a Get medical advice/attention if you feel unwell. P314 - P340 Fail 4 a Get medical advice/attention if you feel unwell. P314 - Get medical advice/attention if you feel unwell. P314 - Call a poison center/doctor if you feel unwell.	· Product identifier	
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Manufacturer/Supplier:         AquaPhoenix Scientific, Inc.         860 Gitts Run Road         Hanover, PA 17331 USA         Tel +1 (717)632-1291         Toll-Free: (866)633-1291         info@aquaphoenixsci.com         Distributor:         AquaPhoenix Scientific         860 Gitts Run Road,         Hanover, PA 17331         (717) 632-1291         Emergency telephone number:         ChemTel Inc.         (800)255-3924 (North America)         +1 (813)248-0585 (International) <b>2 Hazard(s) identification</b> Classification of the substance or mixture         Acute Tox. 4 H332 Harmful if inhaled.         STOT RE 2       H373 May cause damage to organs through prolonged or repeated exposure.         Label elements         The product is classified and labeled according to the Globally Harmonized System (GHS).         Hazard pictograms: <ul> <li></li></ul>	· Recommended use: Laboratory chemicals	
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according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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(Cont'd. of page 1) P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• Other hazards There are no other hazards not otherwise classified that have been identified.

# 3 Composition/information on ingredients

### <sup>•</sup> Chemical characterization: Substances

· Components:	
7783-34-8 Mercury dinitrate	0.25%
<ul> <li>Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330</li> <li>STOT RE 2, H373</li> </ul>	
7697-37-2 Nitric acid	0.075%
<ul> <li>Ox. Liq. 2, H272</li> <li>Acute Tox. 3, H331</li> </ul>	
Acute Tox. 3, H331	
🂑 Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318	
7732-18-5 Water	99.675%
Additional information:	

### Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

### 4 First-aid measures

### Description of first aid measures

### · General information:

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

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately rinse with water.

If skin irritation is experienced, consult a doctor.

### • After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

### • After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

• Most important symptoms and effects, both acute and delayed:

- Methaemoglobinaemia
- Gastric or intestinal disorders when ingested.
- · Danger: May cause neurotoxic effects.

· Indication of any immediate medical attention and special treatment needed:

If medical advice is needed, have product container or label at hand.

## **5** Fire-fighting measures

### • Extinguishing media

(Cont'd. on page 3)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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(Cont'd. of page 2)

Suitable extinguishing agents: Use fire fighting measures that suit the environment.
 For safety reasons unsuitable extinguishing agents: No relevant information available.

· Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

Substance/product is oxidizing when dry.

- <sup>•</sup> Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

### 6 Accidental release measures

<sup>•</sup> Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

Environmental precautions Do not allow to enter sewers/ surface or ground water.

## Methods and material for containment and cleaning up

Use limestone to neutralize and/or absorb spill.

Neutralized material is an oxidizer.

Send for recovery or disposal in suitable receptacles.

**Reference to other sections** 

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# 7 Handling and storage

### · Handling

### • Precautions for safe handling:

Prevent formation of aerosols.

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

Information about protection against explosions and fires:

Substance/product is oxidizing when dry.

Substance/product can reduce the ignition temperature of flammable substances.

<sup>•</sup> Conditions for safe storage, including any incompatibilities

• Requirements to be met by storerooms and receptacles: No special requirements.

### Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with alkalis (caustic solutions).

Store away from metals.

· Further information about storage conditions:

Keep containers tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Specific end use(s) No relevant information available.

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(Cont'd. of page 3)

8 Exposure co	ontrols/personal protection	
	vith limit values that require monitoring at the workplace: constituent is the only constituent of the product which has	a PEL, TLV or othe
7783-34-8 Mer	cury dinitrate	
PEL (USA)	Long-term value: 0.1 mg/m <sup>3</sup> as Hg; see OSHA standard interpretation memo	
REL (USA)	Long-term value: 0.05* mg/m³ Ceiling limit value: 0.1 mg/m³ as Hg; *Vapor; Skin	
TLV (USA)	Long-term value: 0.025 mg/m³ as Hg; Skin; BEI	
EL (Canada)	Long-term value: 0.025 mg/m³ as Hg; Skin, R	
EV (Canada)	Long-term value: 0.025 mg/m³ as Hg, Skin	
LMPE (Mexico)	Long-term value: 0.025 mg/m³ A4, PIEL, IBE; como Hg	
<ul> <li>Ingredients wi</li> <li>7783-34-8 Mere</li> </ul>	th biological limit values:	
Tim Par 15 µ Mec Tim	lium: urine e: prior to shift ameter: Total inorganic mercury (background) Ig/L lium: blood e: end of shift at end of workweek ameter: Total inorganic mercury (background)	
The usual preca Keep away from Wash hands be Engineering co Breathing equ Protection of h Protection of h Material of glo	<pre>stive and hygienic measures: autionary measures for handling chemicals should be followed. in foodstuffs, beverages and feed. fore breaks and at the end of work. controls: Provide adequate ventilation. ipment: Not required under normal conditions of use. aands: tive gloves ves Laminated film gloves.</pre>	
• Eye protection	:	(Cont'd. on page

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Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear. • **Body protection:** Protective work clothing Protection may be required for spills.

- · Limitation and supervision of exposure into the environment
- No relevant information available.

9 Physical and chemical propert	ies	
<ul> <li>Information on basic physical and Appearance:</li> </ul>	I chemical properties	
Form:	Liquid	
Color:	Colorless	
· Odor:	Odorless	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
<ul> <li>Melting point/Melting range:</li> </ul>	0 °C (32 °F)	
<ul> <li>Boiling point/Boiling range:</li> </ul>	100 °C (212 °F)	
· Flash point:	The product is not flammable.	
· Flammability (solid, gaseous):	Not applicable.	
· Auto-ignition temperature:	Not determined.	
· Decomposition temperature:	Not determined.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
Oxidizing properties:	Contains oxidizing agent.	
· Vapor pressure:	Not determined.	
· Density at 20 °C (68 °F):	1.01 g/cm³ (8.43 lbs/gal)	
Relative density:	Not determined.	
· Vapor density:	Not determined.	
· Evaporation rate:	Not determined.	
<ul> <li>Solubility in / Miscibility with</li> </ul>		
Water:	Fully miscible.	
· Partition coefficient (n-octanol/water)	: Not determined.	
· Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
		(Cont'd. on page 6)

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ade name: Mercuric Nitrate Tit	rrant, 0.0141N
	(Cont'd. of pag
• Other information	No relevant information available.
0 Stability and reactivity	
• Reactivity: No relevant inform	ation available. er normal temperatures and pressures.
Thermal decomposition / cond	
	tored according to specifications.
Possibility of hazardous re	
Reacts with strong alkali.	
Reacts with certain metals.	
	heated above the decomposition point.
Conditions to avoid No relev	vant information available.
<ul> <li>Incompatible materials</li> <li>Alkalis.</li> </ul>	
Metals.	
· Hazardous decomposition	products
Under fire conditions only:	r
Mercury oxides.	
Nitrogen oxides	
1 Toxicological information	n
5	
Information on toxicologica	
· Acute toxicity: Based on availa	ble data, the classification criteria are not met.
Acute toxicity: Based on availa     LD/LC50 values that are relevant	able data, the classification criteria are not met. ant for classification:
<ul> <li>Acute toxicity: Based on availa</li> <li>LD/LC50 values that are relevant ATE (Acute Toxicity Estimate)</li> </ul>	able data, the classification criteria are not met. ant for classification:
Acute toxicity: Based on availar     LD/LC50 values that are relevant to a releva	able data, the classification criteria are not met. ant for classification: (g (rat)
Acute toxicity: Based on availation     LD/LC50 values that are relevant and the second	able data, the classification criteria are not met. ant for classification: (g (rat)
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Acute toxicity: Based on availation     LD/LC50 values that are relevant and the second	able data, the classification criteria are not met. ant for classification: (g (rat)
<ul> <li>Acute toxicity: Based on availation</li> <li>LD/LC50 values that are relevant at a relevant at a</li></ul>	able data, the classification criteria are not met. ant for classification: ( (g (rat) (g (rat)
<ul> <li>Acute toxicity: Based on availation of the second se</li></ul>	able data, the classification criteria are not met. ant for classification: (g (rat) (g (rat)) (rat) (rat)
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<ul> <li>Acute toxicity: Based on availation of the second state of the second sta</li></ul>	able data, the classification criteria are not met. ant for classification: (g (rat) (g (rat)) (rat) (rat)
<ul> <li>Acute toxicity: Based on availation of the skin: Based on availation of the skin: Based on available</li> <li>LD/LC50 values that are relevant and the skin: Based on available</li> <li>LD/LC50 values that are relevant are relevant</li></ul>	able data, the classification criteria are not met. ant for classification: (xg (rat) (xg (rat) (rat) (rat) e data, the classification criteria are not met. e data, the classification criteria are not met.
<ul> <li>Acute toxicity: Based on availation of the system of the sy</li></ul>	ant for classification criteria are not met. ant for classification: (q (rat) (q (rat)
<ul> <li>Acute toxicity: Based on availation of the skin: Based on availation of the skin: Based on available</li> <li>LD/LC50 values that are relevant and the skin: Based on available</li> <li>LD/LC50 values that are relevant are relevant and the skin: Based on available</li> </ul>	ant for classification criteria are not met. ant for classification: (q (rat) (q (rat)
<ul> <li>Acute toxicity: Based on availation of the system of the sy</li></ul>	ant for classification criteria are not met. ant for classification: (g (rat) (g (rat) (rat) (rat) (e data, the classification criteria are not met. (e data, the classification criteria are not met. (f Research on Cancer):
· Acute toxicity: Based on availation         · LD/LC50 values that are relevant of the structure of the skin: Based on available         ATE (Acute Toxicity Estimate)         Oral       LD50         Oral       LD50         Inhalative       LD50         7783-34-8       Mercury dinitrate         Oral       LD50       26 mg/kg (r         Dermal       LD50       75 mg/kg (r         Oral       LD50       available         Oral       LD50       75 mg/kg (r         Dermal       LD50       75 mg/kg (r         On the skin: Based on available       On the eye: Based on available         Sensitization: Based on available       Sensitization: Based on available	able data, the classification criteria are not met. ant for classification: (g (rat) (g (rat) (g (rat) (rat) rat) e data, the classification criteria are not met. e data, the classification criteria are not met. ble data, the classification criteria are not met. (c) (c) (c) (c) (c) (c) (c) (c)
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OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

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· Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact. Skin contact.

Skin contact.

• Acute effects (acute toxicity, irritation and corrosivity): No relevant information available.

· Repeated dose toxicity: Danger of very serious irreversible effects.

• Germ cell mutagenicity: Based on available data, the classification criteria are not met.

 $\cdot$  Carcinogenicity: Based on available data, the classification criteria are not met.

• Reproductive toxicity: Based on available data, the classification criteria are not met.

• STOT-single exposure: Based on available data, the classification criteria are not met.

• STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.

• Aspiration hazard: Based on available data, the classification criteria are not met.

## **12 Ecological information**

<sup>·</sup> Toxicity

· Aquatic toxicity No relevant information available.

· Persistence and degradability No relevant information available.

· Bioaccumulative potential: No relevant information available.

• **Mobility in soil:** No relevant information available.

Additional ecological information

· General notes:

The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary.

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

Harmful to aquatic organisms

Other adverse effects No relevant information available.

### **13 Disposal considerations**

### <sup>•</sup> Waste treatment methods

· Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

### <sup>·</sup> Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

### **14 Transport information**

### <sup>·</sup> UN-Number

· DOT, ADR/RID/ADN, IMDG, IATA

Not regulated.

<sup>·</sup> UN proper shipping name

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		(Cont'd. of page
DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
Transport hazard class(es)		
DOT, ADR/RID/ADN, IMDG, IATA Class	Not regulated.	
Packing group DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
Environmental hazards	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	<b>II of</b> Not applicable.	

<ul> <li>Safety, health and environmental regulations/legislation specific for the substance or mixture</li> <li>United States (USA)</li> <li>SARA</li> </ul>
· Section 302 (extremely hazardous substances):
None of the ingredients are listed.
· Section 313 (Specific toxic chemical listings):
None of the ingredients are listed.
TSCA (Toxic Substances Control Act)
All ingredients are listed or exempt.
· Proposition 65 (California)
· Chemicals known to cause cancer:
None of the ingredients are listed.
· Chemicals known to cause developmental toxicity for females:
None of the ingredients are listed.
· Chemicals known to cause developmental toxicity for males:
None of the ingredients are listed.
· Chemicals known to cause developmental toxicity:
7783-34-8 Mercury dinitrate
· EPA (Environmental Protection Agency):
7783-34-8Mercury dinitrateD
IARC (International Agency for Research on Cancer):
7783-34-8   Mercury dinitrate   3
· Canadian Domestic Substances List (DSL):
All ingredients listed on DSL or NDSL.

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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### **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.

## Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Ox. Liq. 2: Oxidizing liquids - Category 2 Met. Corr.1: Corrosive to metals - Category 1 Acute Tox. 2: Acute toxicity - Category 2 Acute Tox. 1: Acute toxicity - Category 1 Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Eye Dam. 1: Serious eye damage/eye irritation - Category 1 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtel.com