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1 Identification	
· Product identifier	
 Trade name: <u>Mercuric Nitrate Titrating Solution</u> Product code: MN9272SS 	
 Recommended use and restriction on use Recommended use: Laboratory chemicals Restrictions on use: No relevant information available. 	
 Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 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) 	
2 Hazard(s) identification	
2 Hazard(s) identification Classification of the substance or mixture	
Classification of the substance or mixture Acute Tox. 3 H331 Toxic if inhaled.	
Classification of the substance or mixture Acute Tox. 3 H331 Toxic if inhaled. STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposur	re.
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 Classification of the substance or mixture Acute Tox. 3 H331 Toxic if inhaled. STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposur Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS) Hazard pictograms: 	
 Classification of the substance or mixture Acute Tox. 3 H331 Toxic if inhaled. STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposur Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS) 	
 Classification of the substance or mixture Acute Tox. 3 H331 Toxic if inhaled. STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposur Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS) Hazard pictograms:).

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

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P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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

[•] Chemical characterization: Substances

· Components:

Compone		
	Mercury dinitrate	0.658%
	 Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330 STOT RE 2, H373 	
7697-37-2		0.075%
	 Ox. Liq. 2, H272 Acute Tox. 3, H331 	
	Acute Tox. 3, H331	
	🂑 Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318	
7732-18-5	Water	99.267%
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.

(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)

5 Fire-fighting measures

[•] Extinguishing media

• 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.

Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

[•] 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.

[•] 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.

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(Cont'd. of page 3)

Store in cool, dry conditions in well sealed receptacles. Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

· Control para	neters vith limit values that require monitoring at the workplace:	
The following	constituent is the only constituent of the product which has a PI	EL, TLV or other
recommended	•	
PEL (USA)	Long-term value: 0.1 mg/m³ 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	
· Ingredients wi	th biological limit values:	
7783-34-8 Mer	-	
Tim	յց/L lium: urine e: prior to shift ameter: Total inorganic mercury (background)	
Tim	ug/L lium: blood e: end of shift at end of workweek ameter: Total inorganic mercury (background)	
The usual preca Keep away fron Wash hands be • Engineering co • Breathing equ • Protection of h	ctive and hygienic measures: autionary measures for handling chemicals should be followed. In foodstuffs, beverages and feed. Infore breaks and at the end of work. Introls: Provide adequate ventilation. Informent: Not required under normal conditions of use.	
• Material of glo	ves Laminated film gloves.	(Cont'd. on page 5)

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· Eye protection:

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 prope	erties	
Information on basic physical a	and chemical properties	
· Appearance:		
Form:	Liquid	
Color:	Colorless	
· Odor:	Odorless	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
 Melting point/Melting range: 	0 °C (32 °F)	
 Boiling point/Boiling range: 	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.	
 Solubility in / Miscibility with 		
Water:	Fully miscible.	
· Partition coefficient (n-octanol/wat	er): Not determined.	
· Viscosity		
Dynamic:	Not determined.	
	(Cont'd. on p	bage

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de name:	Mercurio	c Nitrate Titrati	ng Solution			
						(Cont'd. of pa
Kinemati Other info		n	Not determin No relevant i	ed. nformation avai	lable.	
Stability	and rea	activity				
Chemical s Thermal de No decomp Possibility Reacts with Reacts with Toxic fumes	stability: ecomposition if y of haz strong a certain i s may be ns to ave	sition / condition used and store cardous react alkali. metals. e released if hea oid No relevant	ormal temperatures ons to be avoided d according to spec	cifications.		
Motolo						
Metals. • Hazardou : Under fire c Mercury oxi Nitrogen ox	conditions ides.	nposition pro	oducts			
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None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

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

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None of the ingredients are listed. **Probable route(s) of exposure:**

Ingestion.

Inhalation.

Eve 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.
- · 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

[·] 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

[•] 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.

[·] Uncleaned packagings

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

14 Transport information

· UN-Number

· DOT, ADR/RID/ADN, IMDG, IATA

Not regulated.

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ade name: Mercuric Nitrate Titrating Soluti	ion
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[·] UN proper shipping name · 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	Not applicable.
mixture	gulations/legislation specific for the substance
· United States (USA) · SARA	
SARA Section 302 (extremely hazardous substar	nces):
SARA Section 302 (extremely hazardous substant None of the ingredients are listed.	·
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according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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All ingredients listed on DSL or NDSL.

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 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