# acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: November 26, 2018

Revision: November 19, 2018

1 Identification	
· Product identifier	
Trade name: <u>Phosphonate Titrant</u> Product code: TN5800SS	
Recommended use and restriction on use     Recommended use: Laboratory chemicals	
Restrictions on use: No relevant information available	ble
<ul> <li>Details of the supplier of the Safety Data She</li> <li>Manufacturer/Supplier:</li> </ul>	÷er
AquaPhoenix Scientific, Inc.	
860 Gitts Run Road	
Hanover, PA 17331	
Phone: (717)632-1291	
Toll-Free: (866)632-1291	
info@aquaphoenixsci.com	
· Emergency telephone number:	
ChemTel Inc.	
(800)255-3924 (North America) +1 (813)248-0585 (International)	
+1 (013)240-0303 (International)	
2 Hazard(s) identification	
• Classification of the substance or mixture The product is not classified as hazardous according	to the Globally Harmonized System (GHS).
· Label elements	
The product is not classified as hazardous according	to OSHA GHS regulations within the United States.
· GHS label elements None.	-
· Hazard pictograms: None.	
· Signal word: None	
· Hazard statements: None.	
Precautionary statements: None.	
$\cdot$ Other hazards There are no other hazards not other	erwise classified that have been identified.
2 Composition/information on ingradiante	
3 Composition/information on ingredients	
· Chemical characterization: Mixtures	
· Components:	
7732-18-5 Water	99.85%
13470-07-0 nitric acid, thorium(4+) salt, tetrahydrate	
Ox. Liq. 2, H272 STOT RE 2, H373	
Acute Tox, 4, H302; Eve Irrit, 2A, H3	19 <sup>.</sup> STOT SE 3 H335

Acute Tox. 4, H302; Eye Irrit. 2A, H319; STOT SE 3, H335

## 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.

(Cont'd. on page 2)

### acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: November 26, 2018

Revision: November 19, 2018

#### Trade name: Phosphonate Titrant

(Cont'd. of page 1)

# 4 First-aid measures

### · Description of first aid measures

- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:
- Rinse with warm 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.

- $\cdot$  Most important symptoms and effects, both acute and delayed:
- May cause gastro-intestinal irritation if ingested.
- Nausea in case of ingestion.
- Methaemoglobinaemia
- Danger: No relevant information available.
- $\cdot$  Indication of any immediate medical attention and special treatment needed:

No relevant information available.

## **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
- Formation of toxic gases is possible during heating or in case of fire. Contains oxidizing agent.
- · 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 Ensure adequate ventilation.

For large spills, wear protective clothing.

Take any precaution to avoid mixing with combustibles.

- Environmental precautions Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.
- Methods and material for containment and cleaning up

Dispose of the collected material according to regulations.

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).

(Cont'd. on page 3)

#### acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: November 26, 2018

Revision: November 19, 2018

Trade name: Phosphonate Titrant

(Cont'd. of page 2)

### · 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.

Avoid splashes or spray in enclosed areas.

• Information about protection against explosions and fires: Substance/product is oxidizing when dry.

### · Conditions for safe storage, including any incompatibilities

· Requirements to be met by storerooms and receptacles:

Store only in the original receptacle. Unsuitable material for receptacle: aluminium. • Information about storage in one common storage facility: Store away from foodstuffs. Do not store together with acids. Store away from metals.

- Further information about storage conditions: Keep containers tightly sealed.
- · Specific end use(s) No relevant information available.

## 8 Exposure controls/personal protection

#### Control parameters

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

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· Exposure controls

#### · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.

- Engineering controls: Provide adequate ventilation.
- · Breathing equipment: Not required under normal conditions of use.
- · Protection of hands:



Protective gloves

#### · Material of gloves

Butyl rubber, BR Fluorocarbon rubber (Viton) Neoprene gloves Nitrile rubber, NBR Natural rubber, NR Sensibilization by the components in the glove materials is possible.

(Cont'd. on page 4)

# acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: November 26, 2018

Revision: November 19, 2018

## Trade name: Phosphonate Titrant

(Cont'd. of page 3)

· Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- Body protection: Not required under normal conditions of use.
- · Limitation and supervision of exposure into the environment No special requirements.
- · Risk management measures No special requirements.

· Information on basic physical a	nd chemical properties	
· Appearance: Form:	Liquid	
Color:	Clear	
· Odor:	Odorless	
· Odor threshold:	Not determined.	
· pH-value:	Not determined. Not determined.	
<ul> <li>Melting point/Melting range:</li> <li>Boiling point/Boiling range:</li> </ul>	100 °C (212 °F)	
01 0 0		
· 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.	
<ul> <li>Oxidizing properties:</li> </ul>	Contains oxidizing agent.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
· Density:		
Relative density:	Not determined.	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octanol/wate	er): Not determined.	
· Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	

#### acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: November 26, 2018

Revision: November 19, 2018

Trade name: Phosphonate Titrant

(Cont'd. of page 4)

Other information

No relevant information available.

# 10 Stability and reactivity

- · Reactivity: No relevant information available.
- · Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** Substance/product is oxidizing when dry.
- Toxic fumes may be released if heated above the decomposition point.
- Contact with acids releases toxic gases.
- Reacts with certain metals.
- · Conditions to avoid No relevant information available.
- · Incompatible materials No relevant information available.
- · Hazardous decomposition products
- Under fire conditions only: Nitrogen oxides

## **11 Toxicological information**

### · Information on toxicological effects

- Acute toxicity: Based on available data, the classification criteria are not met.
- · LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:
- On the skin: Based on available data, the classification criteria are not met.
- On the eye: Based on available data, the classification criteria are not met.
- Sensitization: Based on available data, the classification criteria are not met.

### · IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

## · NTP (National Toxicology Program):

None of the ingredients are listed.

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

None of the ingredients are listed.

#### · Probable route(s) of exposure:

- Ingestion.
- Inhalation.

Eye contact.

- Skin contact.
- Acute effects (acute toxicity, irritation and corrosivity): No relevant information available.
- · Repeated dose toxicity: No relevant information available.
- 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.

(Cont'd. on page 6)

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

Printing date: November 26, 2018

Revision: November 19, 2018

Trade name: Phosphonate Titrant

(Cont'd. of page 5)

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

Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

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

### **13 Disposal considerations**

#### · Waste treatment methods

· Recommendation:

Smaller quantities can be disposed of with household waste.

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.

· UN-Number		
DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
· 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.	

#### acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: November 26, 2018

Revision: November 19, 2018

Trade name: Phosphonate Titrant

(Cont'd. of page 6)

Special precautions for user

Not applicable.

 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

# 15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or
mixture
· United States (USA)

· SARA

### · Section 302 (extremely hazardous substances):

None of the ingredients are listed.

### · Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

13470-07-0 nitric acid, thorium(4+) salt, tetrahydrate

## · TSCA (Toxic Substances Control Act)

All ingredients are listed.

### · 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:

None of the ingredients are listed.

· EPA (Environmental Protection Agency):

None of the ingredients are listed.

### · IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

### · Canadian Domestic Substances List (DSL) (Substances not listed.):

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

(Cont'd. on page 8)

# acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: November 26, 2018

Revision: November 19, 2018

#### Trade name: Phosphonate Titrant

(Cont'd. of page 7) 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 PBT: Persistant, Bio-accumulable, Toxic vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health Administration Ox. Liq. 2: Oxidizing liquids – Category 2 Acute Tox. 4: Acute toxicity – Category 4 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 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 Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com