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

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### **1** Identification

### · Product identifier

- · Trade name: Organophosphonate Titrant
- · Product code: AD1596SS
- · 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 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)

# 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

- · GHS label elements Not regulated.
- · Hazard pictograms: None.
- · Signal word: None
- · Hazard statements: None.
- Precautionary statements: None.

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

## **3** Composition/information on ingredients

### · Chemical characterization: Mixtures

# · Components:

components.		
7732-18-5	Water	99.99%
7647-01-0	hydrochloric acid	0.01%
	🔶 Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318	
	() Acute Tox. 4, H302; 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.

4 First-aid measures	
	(Cont'd. on page 2)

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aue name: (	Drganophosphonate Titrant
	(Cont'd. of page
· Descriptio	n of first aid measures
	tion: Supply fresh air; consult doctor in case of complaints.
· After skin c	
	rinse with water.
	on is experienced, consult a doctor.
· After eye co	
	ntact lenses if worn.
	ed eye for several minutes under running water. If symptoms persist, consult a doctor.
· After swalld	
	outh and then drink plenty of water.
	ce vomiting; immediately call for medical help.
	tant symptoms and effects, both acute and delayed: No relevant information available.
	relevant information available.
	of any immediate medical attention and special treatment needed:
If medical a	dvice is needed, have product container or label at hand.
5 Fire-fight	ing measures
	easons unsuitable extinguishing agents: No relevant information available.
<ul> <li>Special haz Formation o</li> <li>Advice for</li> <li>Protective of Wear self-co</li> </ul>	ards arising from the substance or mixture f toxic gases is possible during heating or in case of fire. firefighters
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<ul> <li>Special haz Formation o</li> <li>Advice for</li> <li>Protective of Wear self-co Wear fully p</li> <li>6 Accidenta</li> <li>Personal p Ensure adeo For large sp</li> <li>Environme Do not allow system.</li> <li>Methods a Absorb with Send for rec See Section See Section</li> </ul>	ards arising from the substance or mixture f toxic gases is possible during heating or in case of fire. firefighters equipment: ontained respiratory protective device. rotective suit. al release measures precautions, protective equipment and emergency procedures quate ventilation. ills, wear protective clothing. ental precautions v undiluted product or large quantities of it to reach ground water, water course or sewa and material for containment and cleaning up liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). rovery or disposal in suitable receptacles. to other sections

# 7 Handling and storage

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

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# Trade name: Organophosphonate Titrant (Cont'd. of page 2) · Handling · Precautions for safe handling: Avoid splashes or spray in enclosed areas. Prevent formation of aerosols. Use only in well ventilated areas. · Information about protection against explosions and fires: No special measures required. 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. Store away from metals. Do not store together with alkalis (caustic solutions). • 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:

### 7647-01-0 hydrochloric acid

PEL (USA)	Ceiling limit value: 7 mg/m³, 5 ppm
REL (USA)	Ceiling limit value: 7 mg/m <sup>3</sup> , 5 ppm
TLV (USA)	Ceiling limit value: 2.98 mg/m <sup>3</sup> , 2 ppm
EL (Canada)	Ceiling limit value: 2 ppm
	Ceiling limit value: 2 ppm
LMPE (Mexico)	Ceiling limit value: 2 ppm
	A4

## · Exposure controls

### · General protective and hygienic measures:

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

Wash hands before breaks and at the end of work.

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



Protective gloves

## • Material of gloves Nitrile rubber, NBR Butyl rubber, BR

Neoprene gloves Natural rubber, NR

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- Sensibilization by the components in the glove materials is possible.
- · Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- · Body protection: Protective work clothing
- · Limitation and supervision of exposure into the environment No relevant information available.

Information on basis should be	ud abomical propertie -	
<ul> <li>Information on basic physical and chemical properties</li> <li>Appearance:</li> </ul>		
Form:	Liquid	
Color:	Light purple.	
Odor:	Not determined.	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	100-102 °C (212-215.6 °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:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	1 g/cm <sup>3</sup> (8.35 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	er): Not determined.	
Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	

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		(Cont'd. of page 4
· Other information	No relevant information available.	
10 Stability and reactivity		
10 Stability and reactivity <ul> <li>Reactivity: No relevant inform</li> <li>Chemical stability: Stable und</li> <li>Thermal decomposition / cordinates</li> </ul>	der normal temperatures and pressures.	

No decomposition if used and stored according to specifications.

- **Possibility of hazardous reactions** Toxic fumes may be released if heated above the decomposition point. Reacts with alkali (lyes). Reacts with certain metals.
- · Conditions to avoid No relevant information available.
- Incompatible materials
   Alkalis.
   Metals.
- Hazardous decomposition products Under fire conditions only: Possible in traces.

# **11 Toxicological information**

- · Information on toxicological effects
- · Acute toxicity:
- · 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):

7647-01-0 hydrochloric acid

### • 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.

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(Cont'd. of page 5)

- STOT-single exposure: Based on available data, the classification criteria are not met.
- · 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 undiluted product or large quantities of it to reach ground water, water course or sewage system.

· Other adverse effects No 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. 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.

4 Transport information		
· UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
<ul> <li>· UN proper shipping name</li> <li>· DOT, ADR/RID/ADN, IMDG, IATA</li> </ul>	Not regulated.	
· Transport hazard class(es)		
<ul> <li>DOT, ADR/RID/ADN, IMDG, IATA</li> <li>Class</li> </ul>	Not regulated.	
<ul> <li>Packing group</li> <li>DOT, ADR/RID/ADN, IMDG, IATA</li> </ul>	Not regulated.	
· Environmental hazards	Not applicable.	
		(Cont'd. on page

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	(Cont'd. of page 6)	
Not applicable.		
x II of Not applicable.		
	x II of	

# **15 Regulatory information**

<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 355 (extremely hazardous substances):
7647-01-0 hydrochloric acid
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:
None of the ingredients are listed.
· EPA (Environmental Protection Agency):
None of the ingredients are listed.
· IARC (International Agency for Research on Cancer):
7647-01-0   hydrochloric acid   3
Canadian Domestic Substances List (DSL):
None of the ingredients are listed.

# **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

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(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 OSHA: Occupational Safety & Health Administration Met. Corr.1: Corrosive to metals - Category 1 Acute Tox. 4: Acute toxicity - Category 4 Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 · 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