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

Revision: January 28, 2021

Inhalation. Precautionary statements: P314 Get medical advice/attention if you feel unwell.	1 Identification	
 Product code: VE5010 CAS Number: 1318-00-9 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@aquaphoenixsc.com Distributor: AquaPhoenix Scientific 800 Gitts Run Road, Hanover, PA 17331 (717) 632-1291 Emergency telephone number: Chem Tel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International) Z Hazard(s) identification Classification of the substance or mixture STOT RE 2 H373 May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation. Label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms: With a statements: H373 May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation. Label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms: With Stabel elements: The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms: With Stabel elements: H373 May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation. Precautionary statements: H373 May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation. 	· Product identifie	er
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· Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

[•] Chemical characterization: Substances

· CAS No. Description

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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.

Provide oxygen treatment if affected person has difficulty breathing.

If experiencing respiratory symptoms: Call a doctor.

• After skin contact:

Wash with soap and water.

If skin irritation is experienced, consult a doctor.

• After eye contact:

Remove contact lenses if worn.

Rinse opened eye for 15 minutes under running water. If symptoms persist, consult a doctor.

• After swallowing: Do not induce vomiting; immediately call for medical help.

Most important symptoms and effects, both acute and delayed:

Coughing

Gastric or intestinal disorders when ingested.

Mechanical irritation to eyes.

Danger:

May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

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

• 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 No relevant information available.

Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

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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 No special measures required.

Methods and material for containment and cleaning up

Vacuum or sweep and collect in a suitable container. For a large spill, collect uncontaminated product for possible re-use. Avoid creating dusty conditions.

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: 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 in a dry place.

Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with acids.

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:

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.

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: When needed, wear gloves for protection against mechanical hazards.

· Material of gloves

A recommendation for a suitable glove material is not available. Testing will be required to determine the

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suitability of any potential glove materials.

• 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.

· Risk management measures No relevant information available.

9 Physical and chemical properties

· Information on basic physical and	t chemical properties	
· Appearance:		
Form:	Powder or granules.	
Color:	Tan	
· Odor:	Odorless	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Melting point/Melting range:	Not determined.	
· Boiling point/Boiling range:	Not determined.	
· Flash point:	Not applicable.	
· 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:	Non-oxidizing.	
· Vapor pressure:	Not determined.	
· Density:		
Relative density:	Not determined.	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/water)	: Not determined.	
· Viscosity		
Dynamic:	Not determined.	
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Kinematic: Other information Not determined. 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

Reacts with strong acids and alkali.

- Toxic fumes may be released if heated above the decomposition point.
- · Conditions to avoid No relevant information available.
- [·] Incompatible materials

Alkalis

Acids.

Hazardous decomposition products

Under fire conditions only: Silicon oxides.

Metal oxide smoke.

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.

Mechanical irritation only.

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

· IARC (International Agency for Research on Cancer):

Substance is not listed.

• NTP (National Toxicology Program):

Substance is not listed.

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

Substance is not listed.

· Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact. Skin contact.

Skill contact.

· Acute effects (acute toxicity, irritation and corrosivity): Mechanical irritation to eyes.

• Repeated dose toxicity: Possible risk of irreversible effects.

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· 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.

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

· STOT-repeated exposure:

May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

• 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:

Negative ecological effects are, according to the current state of knowledge, not expected.

• 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.

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.	

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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): Substance is not listed. Section 313 (Specific toxic chemical listings): Substance is not listed. • TSCA (Toxic Substances Control Act) All ingredients are listed or exempt. · Proposition 65 (California) · Chemicals known to cause cancer: Substance is not listed. Chemicals known to cause developmental toxicity for females: Substance is not listed. Chemicals known to cause developmental toxicity for males: Substance is not listed. Chemicals known to cause developmental toxicity: Substance is not listed. EPA (Environmental Protection Agency): Substance is not listed. · IARC (International Agency for Research on Cancer): Substance is not listed. Canadian Domestic Substances List (DSL): 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

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CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent DD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration 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