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1 Identification
Product identifier
<ul> <li>Trade name: <u>Zinc Nitrate, (6H2O)</u></li> <li>Product code: ZN3350</li> <li>CAS Number: 10196-18-6</li> </ul>
<ul> <li>Recommended use and restriction on use</li> <li>Recommended use: Laboratory chemicals</li> <li>Restrictions on use: No relevant information available.</li> </ul>
<ul> <li>Details of the supplier of the Safety Data Sheet</li> <li>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</li> <li>Distributor: AquaPhoenix Scientific 860 Gitts Run Road, Hanover, PA 17331 (717) 632-1291</li> <li>Emergency telephone number: Chem Tel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)</li> </ul>
2 Hazard(s) identification
Classification of the substance or mixtureOx. Liq. 2H272May intensify fire; oxidizer.Ox. Sol. 2H272May intensify fire; oxidizer.Acute Tox. 4H302Harmful if swallowed.Skin Irrit. 2H315Causes skin irritation.Eye Irrit. 2AH319Causes serious eye irritation.STOT SE 3H335May cause respiratory irritation.
<ul> <li>Label elements</li> <li>GHS label elements</li> <li>The product is classified and labeled according to the Globally Harmonized System (GHS).</li> <li>Hazard pictograms:</li> </ul>

GHS03 GHS07

• **Signal word:** None. Danger

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

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Trade name: Zinc Nitrate, (6H2O)

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<ul> <li>Hazard statement</li> </ul>	
H272 May intensif	
H272 May intensif	fy fire; oxidizer.
H302 Harmful if s	wallowed.
H315 Causes skir	n irritation.
H319 Causes seri	ious eye irritation.
H335 May cause	respiratory irritation.
Precautionary st	atements:
Not regulated.	
P210	Keep away from heat.
P220	Keep/Store away from clothing/combustible materials.
P221	Take any precaution to avoid mixing with combustibles.
P261	Avoid breathing dust.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P302+P352	If on skin: Wash with plenty of water.
P321	Specific treatment (see on this label).
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	3 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P330	Rinse mouth.
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use for extinction: Water.
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

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

· CAS No. Description

10196-18-6 zinc(II) nitrate hexahydrate

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

### <sup>•</sup> Description of first aid measures

### · General information:

Immediately remove any clothing soiled by the product.

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

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Trade name: Zinc Nitrate, (6H2O) (Cont'd. of page 2) Take affected persons out into the fresh air. After inhalation: Supply fresh air. Provide oxygen treatment if affected person has difficulty breathing. In case of unconsciousness place patient stably in side position for transportation. · After skin contact: Brush off loose particles from skin. Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor. · After eve contact: Protect unharmed eye. Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. · After swallowing: Do not induce vomiting; immediately call for medical help. A person vomiting while lying on their back should be turned onto their side. · Most important symptoms and effects, both acute and delayed: Irritating to eyes and skin. Irritating to respiratory system and skin. Gastric or intestinal disorders when ingested. Nausea in case of ingestion. Danger: Harmful if swallowed. Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. Indication of any immediate medical attention and special treatment needed: If swallowed or in case of vomiting, danger of entering the lungs. Medical supervision for at least 48 hours. If necessary oxygen respiration treatment. If medical advice is needed, have product container or label at hand.

### **5** Fire-fighting measures

• Extinguishing media · Suitable extinguishing agents: Fire-extinguishing powder Foam Carbon dioxide Water fog / haze Gaseous extinguishing agents · For safety reasons unsuitable extinguishing agents: Water stream. · Special hazards arising from the substance or mixture Flammable solid. May intensify fire: oxidizer. Formation of toxic gases is possible during heating or in case of fire. <sup>•</sup> Advice for firefighters · Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit.

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### Trade name: Zinc Nitrate, (6H2O)

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### Additional information:

Eliminate all ignition sources if safe to do so. Cool endangered containers with water fog.

### 6 Accidental release measures

### • Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Keep away from ignition sources.

Wear protective equipment. Keep unprotected persons away.

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.

Inform respective authorities in case of seepage into water course or sewage system.

### Methods and material for containment and cleaning up

Pick up mechanically.

Towel or mop up material and collect in a suitable container.

Dispose of the collected material according to regulations.

### **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. Use only in well ventilated areas.
Information about protection against explosions and fires: Protect from heat. Flammable solid. May form combustible dust concentrations in air. Protect against electrostatic charges. Flammable gas-air mixtures may be formed in empty containers/receptacles.
Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: Avoid storage near extreme heat, ignition sources or open flame.
Information about storage in one common storage facility: Store away from foodstuffs.
Store away from oxidizing agents.
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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	trols/personal protection
	h <b>limit values that require monitoring at the workplace:</b> s not contain any relevant quantities of materials with critical values that have to b
The usual precauti Keep away from for Wash hands and for Do not inhale dust Avoid contact with Engineering cont Breathing equipm Not required under Use suitable respir	<ul> <li><i>re</i> and hygienic measures:</li> <li>ionary measures for handling chemicals should be followed.</li> <li>bodstuffs, beverages and feed.</li> <li>face after working with the substance.</li> <li>/ smoke / mist.</li> <li>the eyes and skin.</li> <li>trols: No relevant information available.</li> <li>nent:</li> <li>r normal conditions of use.</li> <li>ratory protective device when high concentrations are present.</li> <li>roved organic vapor respirator equipped with a dust/mist prefilter should be used.</li> </ul>
Protective	gloves
Penetration time	ber (Viton) २ the components in the glove materials is possible.
Safety gla	isses
	tional guidelines concerning the use of protective eyewear. Protective work clothing

<sup>·</sup> Information on basic physical and chemical properties · Appearance:

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ade name: Zinc Nitrate, (6H2O)		
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Form:	Solid	
Color:	Whitish	
· Odor:	Odorless	
Odor threshold:	Not determined.	
· pH-value:	Not determined.	
• Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	Not determined.	
· 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:	Not determined.	
· Density:		
Relative density:	Not determined.	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wat	ter): Not determined.	
· Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
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.

### <sup>•</sup> Possibility of hazardous reactions

Flammable solid.

Used empty containers may contain product gases which form explosive mixtures with air. Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.

Toxic fumes may be released if heated above the decomposition point.

### Conditions to avoid

Keep ignition sources away - Do not smoke.

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Keep away from oxidising agents. Incompatible materials Oxidizing agents. Oxidizers Oxidizers, strong bases, strong acids Hazardous decomposition products Under fire conditions only: Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

11 Toxicological information
<ul> <li>Information on toxicological effects</li> <li>Acute toxicity: Harmful if swallowed. Causes skin and eye irritation.</li> <li>LD/LC50 values that are relevant for classification: None.</li> </ul>
<ul> <li>Primary irritant effect:</li> <li>On the skin: Irritant to skin and mucous membranes.</li> <li>On the eye: Causes serious eye irritation.</li> <li>Sensitization: May cause sensitization by skin contact.</li> </ul>
· 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.
<ul> <li>Probable route(s) of exposure: Ingestion. Inhalation.</li> <li>Eye contact.</li> <li>Skin contact.</li> <li>Acute effects (acute toxicity, irritation and corrosivity): Harmful if swallowed. Irritating to eyes and respiratory system. May be fatal if swallowed and enters airways.</li> <li>Germ cell mutagenicity: Based on available data, the classification criteria are not met.</li> <li>Carcinogenicity: Based on available data, the classification criteria are not met.</li> <li>STOT-single exposure: Based on available data, the classification criteria are not met.</li> <li>STOT-repeated exposure: Based on available data, the classification criteria are not met.</li> </ul>
12 Ecological information
· Toxicity

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

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· Aquatic toxicity Toxic to aquatic life.

· Persistence and degradability No relevant information available.

· Bioaccumulative potential: No relevant information available.

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

<sup>•</sup> Additional ecological information

· General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Other adverse effects No relevant information available.

### **13 Disposal considerations**

### <sup>·</sup> 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. Residual materials should be treated as hazardous.

### <sup>·</sup> Uncleaned packagings

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

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ZINC NITRATE, MARINE POLLUTANT
5.1
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	5.1 (O2)
Label	5.1
IMDG	
	5.1
Label	5.1
ΙΑΤΑ	
	5.1 5.1
Packing group DOT, ADR/RID/ADN, IMDG, IATA	11
Environmental hazards	
	Symbol (fish and tree)
	Warning: Oxidizing substances
	50
	F-H,S-Q
	Heavy metals and their salts (including th organometallic compounds)
	<u> </u>
Transport in bulk according to Annex II of	
MAPPOL 73/78 and the IBC Code	Not oppliable
MARPOL73/78 and the IBC Code	Not applicable.
MARPOL73/78 and the IBC Code	Not applicable.
MARPOL73/78 and the IBC Code Regulatory information	Not applicable.
Regulatory information	
Regulatory information Safety, health and environmental regulat mixture United States (USA) SARA Section 302 (extremely hazardous substances)	tions/legislation specific for the substance
Regulatory information Safety, health and environmental regulat mixture United States (USA) SARA	tions/legislation specific for the substance
Regulatory information Safety, health and environmental regulat mixture United States (USA) SARA Section 302 (extremely hazardous substances) Substance is not listed. Section 313 (Specific toxic chemical listings):	tions/legislation specific for the substance
Regulatory information Safety, health and environmental regulat mixture United States (USA) SARA Section 302 (extremely hazardous substances) Substance is not listed. Section 313 (Specific toxic chemical listings):	tions/legislation specific for the substance
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Regulatory information Safety, health and environmental regulat mixture United States (USA) SARA Section 302 (extremely hazardous substances) Substance is not listed. Section 313 (Specific toxic chemical listings):	tions/legislation specific for the substance
Regulatory information Safety, health and environmental regulat 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)	tions/legislation specific for the substance

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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):

Substance is not 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 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 Ox. Sol. 2: Oxidizing solids - Category 2 Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A 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 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