According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.20.2018 Page 1 of 9

Zinc Nitrate, ACS

SECTION 1: Identification

Product identifier

Product name: Zinc Nitrate, ACS

Product code: ZN3300

Recommended use of the product and restriction on use

Relevant identified uses: Industrial

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer: United States

AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 1-717-632-1291

Emergency telephone number:

United States

ChemTel Inc

+1(800)255-3924

+1(813)248-0585

SECTION 2: Hazard(s) identification

GHS classification:

Oxidizing solids, category 2

Eye irritation, category 2A

Acute toxicity (oral), category 4

Specific target organ toxicity - single exposure, category 3, respiratory irritation

Acute aquatic hazard, category 2

Chronic aquatic hazard, category 2

Label elements

Hazard pictograms:







Signal word: Danger

Hazard statements:

H272 May intensify fire; oxidizer

H319 Causes serious eye irritation

H302 Harmful if swallowed

H335 May cause respiratory irritation

H401 Toxic to aquatic life

H411 Toxic to aquatic life with long lasting effects

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.20.2018 Page 2 of 9

Zinc Nitrate, ACS

P220 Keep/Store away from clothing/combustible materials

P221 Take any precaution to avoid mixing with combustibles

P280 Wear protective gloves/protective clothing/eye protection/face protection

P264 Wash skin thoroughly after handling

P270 Do not eat, drink or smoke when using this product

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P271 Use only outdoors or in a well-ventilated area

P273 Avoid release to the environment

P370+P378 In case of fire: Use agents recommended in section 5 for extinction

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

P301+P330+P312 IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

P304+P340+P312 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell

P391 Collect spillage

P405 Store locked up

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

P501 Dispose of contents and container as instructed in Section 13

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 10196-18-6	Zinc Nitrate hexahydrate	100

Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

Move exposed individual to fresh air

Call a POISON CONTROL CENTER or seek medical attention if you feel unwell

After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

If symptoms develop or persist, seek medical attention

Remove contact lens(es) if able to do so during rinsing

Seek medical attention if irritation persists or if concerned

After swallowing:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.20.2018 Page 3 of 9

Zinc Nitrate, ACS

Call a POISON CONTROL CENTER or seek medical attention if you feel unwell

Do not induce vomiting

Rinse mouth and then drink plenty of water

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Will release oxygen when heated, intensifying a fire

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

Carbon monoxide and carbon dioxide may form upon combustion

Heating causes a rise in pressure, risk of bursting and combustion

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

Environmental precautions:

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

Sweep or scoop up solid material while minimizing dust generation

Dispose of contents / container in accordance with local regulations

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.20.2018 Page 4 of 9

Zinc Nitrate, ACS

Use only with adequate ventilation.

Avoid breathing dust.

Do not eat, drink, smoke or use personal products when handling chemical substances.

Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.

Keep container dry.

Store in a cool, well-ventilated area.

Store away from flammable and combustible materials (paper, wood).

Store away from reducing agents (zinc, alkaline metals, formic acid).

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

No occupational exposure limits noted for the ingredient(s).

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Solid; Colorless crystals
Odor	Odorless
Odor threshold	Not determined
pH	Not determined
Melting point/freezing point	96.8°F (36°C) estimated

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.20.2018 Page 5 of 9

Zinc Nitrate, ACS

Not determined
Not applicable
Not determined
Not applicable
Not determined
2.065
Soluble in water
Not determined

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

None known.

Incompatible materials:

None known.

Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Harmful if swallowed **Product data:** No data available.

Substance data:

Name	Route	Result
Zinc Nitrate hexahydrate	oral	LD50 - Rat - 1190 mg/kg

Skin corrosion/irritation

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

Product data: No data available.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.20.2018 Page 6 of 9

Zinc Nitrate, ACS

Substance data:

Name	Result
Zinc Nitrate hexahydrate	Causes skin irritation.

Serious eye damage/irritation

Assessment: Causes serious eye irritation

Product data: No data available.

Substance data:

Name	Result
Zinc Nitrate hexahydrate	Causes serious eye irritation.

Respiratory or skin sensitization

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

Product data: No data available. **Substance data:** No data available.

Carcinogenicity

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

Product data: No data available. **Substance data:** No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

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

Product data: No data available. **Substance data:** No data available.

Reproductive toxicity

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

Product data: No data available. **Substance data:** No data available.

Specific target organ toxicity (single exposure)
Assessment: May cause respiratory irritation

Product data: No data available.

Substance data:

Name	Result
Zinc Nitrate hexahydrate	May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

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

Product data: No data available. **Substance data:** No data available.

Aspiration toxicity

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

Product data: No data available.

Substance data: No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available.

Other information: No data available.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.20.2018 Page 7 of 9

Zinc Nitrate, ACS

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Toxic to aquatic life Product data: No data available. Substance data: No data available.

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available. **Substance data:** No data available.

Bioaccumulative potential

Product data: No data available. **Substance data:** No data available.

Mobility in soil

Product data: No data available.
Substance data: No data available.
Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	UN 1514
UN proper shipping name	Zinc Nitrate
UN transport hazard class(es)	5.1
Packing group	II
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	UN 1514	
UN proper shipping name	Zinc Nitrate	
UN transport hazard class(es)	5.1	<u> </u>
	5.1/	/
Packing group	II	
Environmental hazards	None	
Special precautions for user	None	

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.20.2018 Page 8 of 9

Zinc Nitrate, ACS

UN number	UN 1514	
UN proper shipping name	Zinc Nitrate	
UN transport hazard class(es)	5.1	ORDIZER 5.1
Packing group	II	
Environmental hazards	None	
Special precautions for user	None	

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

10196-18-6	Zinc Nitrate hexahydrate	Not
		Listed

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

SARA Section 311/312 hazards:

Acute	Chronic	Fire	Pressure	Reactive
Yes	No	No	No	Yes

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals:

	10196-18-6	Zinc Nitrate hexahydrate	Listed
--	------------	--------------------------	--------

CERCLA: Not determined. **RCRA:** Not determined.

Section 112(r) of the Clean Air Act (CAA): Not determined.

Massachusetts Right to Know:

	10196-18-6	Zinc Nitrate hexahydrate	Listed
New Jersey Right to Know:			

New Jersey Right to Knows

10196-18-6	Zinc Nitrate hexahydrate	Listed

New York Right to Know:

10196-18-6	Zinc Nitrate hexahydrate	Listed

Pennsylvania Right to Know:

10196-18-6	Zinc Nitrate hexahydrate	Listed

California Proposition 65: None of the ingredients are listed.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 1-0-2

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.20.2018 Page 9 of 9

Zinc Nitrate, ACS

HMIS: 2-0-2

Initial preparation date: 02.20.2018

End of Safety Data Sheet