According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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Cupric Nitrate

SECTION 1: Identification

Product identifier

Product name: Cupric Nitrate Product code: CU2000

Recommended use of the product and restriction on use

Relevant identified uses: Laboratory Chemicals 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 Acute toxicity (oral), category 4 Skin irritation, category 2 Serious eye damage, category 1 Acute aquatic hazard, category 1 Combustible dust

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H272 May intensify fire; oxidizer

H900 May form combustible dust concentrations in air

- H302 Harmful if swallowed
- H315 Causes skin irritation
- H318 Causes serious eye damage
- H400 Very toxic to aquatic life

Precautionary statements:

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

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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

P273 Avoid release to the environment

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

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

P321 Specific treatment (see supplemental first aid instructions on this label).

P362 Take off contaminated clothing and wash before reuse

P302+P352 If on skin: Wash with soap and water

P332+P313 If skin irritation occurs: Get medical advice/attention

P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. P391 Collect spillage

P405 Store locked up

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: 19004-19-4	Cupric Nitrate	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

After skin contact:

Rinse affected area with soap and water If symptoms develop or persist, seek medical attention Wash affected area with soap and water Seek medical attention if symptoms develop or persist

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 Immediately call a POISON CONTROL CENTER or seek medical attention

After swallowing:

Rinse mouth thoroughly Seek medical attention if irritation, discomfort, or vomiting persists Call a POISON CONTROL CENTER or seek medical attention if you feel unwell

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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:

Use only with adequate ventilation.

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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:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
United States (OSHA)	Cupric Nitrate	19004-19-4	OSHA PEL 1 mg/m3, as Cu (dusts and mists)
	Cupric Nitrate	19004-19-4	OSHA PEL 0.1 mg/m3, as Cu (fume)
ACGIH	Cupric Nitrate	19004-19-4	ACGIH TLV 0.1 mg/m3, as Cu,(fume)
	Cupric Nitrate	19004-19-4	ACGIH TLV 1 mg/m3, as Cu, (dusts and mists)
NIOSH	Cupric Nitrate	19004-19-4	NIOSH IDLH 100 mg/m3, as Cu (fume)

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.

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SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Blue solid.		
Odor	Odorless.		
Odor threshold	Not determined or not available.		
рН	Not determined or not available.		
Melting point/freezing point	255°C		
Initial boiling point/range	Not determined or not available.		
Flash point (closed cup)	Not determined or not available.		
Evaporation rate	Not determined or not available.		
Flammability (solid, gas)	Not determined or not available.		
Upper flammability/explosive limit	Not determined or not available.		
Lower flammability/explosive limit	Not determined or not available.		
Vapor pressure	Not determined or not available.		
Vapor density	Not determined or not available.		
Density	Not determined or not available.		
Relative density	Not determined or not available.		
Solubilities	Material is slightly water soluble.		
Partition coefficient (n-octanol/water)	Not determined or not available.		
Auto/Self-ignition temperature	Not determined or not available.		
Decomposition temperature	Not determined or not available.		
Dynamic viscosity	Not determined or not available.		
Kinematic viscosity	Not determined or not available.		
Explosive properties	Not determined or not available.		
Oxidizing properties	Not determined or not available.		

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

No decomposition if used and stored according to specifications.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

Store away from other oxidizing agents, strong acids or bases.

Incompatible materials:

Strong acids. Strong bases.

Hazardous decomposition products:

Carbon oxides (CO, CO2).

SECTION 11: Toxicological information

Acute toxicity

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Cupric Nitrate Assessment: Harmful if swallowed Product data: No data available. Substance data: No data available. Skin corrosion/irritation Assessment: Causes skin irritation Product data: No data available. Substance data: No data available. Serious eye damage/irritation Assessment: Causes serious eye damage Product data: No data available. Substance data: No data available. 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:** Based on available data, the classification criteria are not met. Product data: No data available. Substance data: No data available. 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.

SECTION 12: Ecological information

Acute (short-term) toxicity

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Assessment: Very 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

United States Transportation of dangerous goods (49 CFR DOT)

UN number	1477	
UN proper shipping name	NITRATES, INORGANIC, N.O.S. (Cupric Nitrate)	
UN transport hazard class(es)	5.1	00002R 5.1
Packing group	11	
Environmental hazards	None	
Special precautions for user	None	
Excepted quantities	30 g/30 ml	
Passenger air/rail	5KG	
Cargo aircraft only	25KG	
Stowage category	A	

International Maritime Dangerous Goods (IMDG)

UN number	1477		
UN proper shipping name	NITRATES, INORGANIC, N.O.S. (Cupric Nitrate)		
UN transport hazard class(es)	5.1	COLDERER 5.1	
Packing group	II		
Environmental hazards	None		
Special precautions for user	None		

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Excepted quantities	30 g/30 ml
Limited quantity	1KG

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

UN number	1477			
UN proper shipping name	NITRATES, INORGANIC, N.O.S. (Cupric Nitrate)	NITRATES, INORGANIC, N.O.S. (Cupric Nitrate)		
UN transport hazard class(es)	5.1	ONDEZER 5.1		
Packing group	11			
Environmental hazards	None			
Special precautions for user	None			
ERG code	140			
Excepted quantities	30 g/30 ml			
Passenger and cargo	5KG			
Cargo aircraft only	25KG			
Limited quantity	1KG			

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

19004-19-4	Cupric Nitrate	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
No	No	No	No	No

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals: Not determined.

CERCLA: Not determined.

RCRA: Not determined.

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

Massachusetts Right to Know: Not determined.

New Jersey Right to Know: Not determined.

New York Right to Know: Not determined.

Pennsylvania Right to Know: Not determined.

California Proposition 65: Not determined.

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

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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:** 2-0-0

HMIS: 2-0-2

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End of Safety Data Sheet