

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations Revision Date: 08/12/2019 Date of Issue: 02/26/2014

Version: 2.0

## **SECTION 1: IDENTIFICATION**

1.1. Product Identifier

Product Form: Mixture Product Name: COPPER (II) NITRATE, 0.1 MOLAR SOLUTION Product Code: CC0519

Synonyms: Cupric Nitrate, Water Solution

## **1.2.** Intended Use of the Product

Use of the Substance/Mixture: For laboratory use only. Not for drug, food or household use.

#### 1.3. Name, Address, and Telephone of the Responsible Party

#### Manufacturer

Quality Science Labs, LLC P.O. Box 159, 37888 Highway 24 Lake George, CO 80827 Tel: 866.700.1884 www.qualitysciencelabs.com

## 1.4. Emergency Telephone Number

**Emergency Number** 

: CHEMTREC 24 Hour Emergency: Phone Number (800) 424-9300

## SECTION 2: HAZARDS IDENTIFICATION

## 2.1. Classification of the Substance or Mixture

Not classified

#### 2.2. Label Elements

**GHS-US Labeling** 

No labeling applicable

## 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

## 2.4. Unknown Acute Toxicity (GHS-US)

## No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Synonyms	Product Identifier	%	GHS US classification
Water	AQUA / Aqua	(CAS-No.) 7732-18-5	97.58	Not classified
Nitric acid, copper(2+) salt, trihydrate	Copper(II) nitrate, trihydrate (1:2:3) / Copper(II) nitrate, trihydrate / Cupric nitrate trihydrate / Copper nitrate trihydrate / Copper(II) nitrate trihydrate / Copper dinitrate trihydrate / Copper(II) bis(nitrate) trihydrate / Copper(II)nitrate / Copper dinitrate	(CAS-No.) 10031-43- 3	2.42	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400

## Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

## 4.1. Description of First-aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid Measures After Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.

**First-aid Measures After Eye Contact:** Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

## 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**Symptoms/Injuries:** Not expected to present a significant hazard under anticipated conditions of normal use. **Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

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Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None known.

## 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

## 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, or dry chemical. **Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

#### 5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

**Explosion Hazard:** Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

#### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. **Hazardous Combustion Products:** Copper oxides. Nitrogen oxides.

**Other Information:** Do not allow run-off from fire fighting to enter drains or water courses.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapor, mist, spray).

#### 6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

#### 6.2. Environmental Precautions

Collect spillage. Prevent entry to sewers and public waters. Avoid release to the environment.

#### 6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Transfer spilled material to a suitable container for disposal. Clean up spills immediately and dispose of waste safely. Contact competent authorities after a spill.

## 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

#### **SECTION 7: HANDLING AND STORAGE**

#### 7.1. Precautions for Safe Handling

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, spray. **Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

#### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong oxidizing agents, aluminum cyanides, esters, sodium hypophosphite, stannous chloride and thiocyanates.

## 7.3. Specific End Use(s)

For laboratory use only. Not for drug, food or household use.

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## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

## 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

#### 8.2. Exposure Controls

**Appropriate Engineering Controls** 

- : Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.
- Personal Protective Equipment
- : Gloves. Protective clothing. Protective goggles.



Materials for Protective Clothing	: Chemically resistant materials and fabrics.
Hand Protection	: Wear protective gloves.
Eye and Face Protection	: Chemical safety goggles.
Skin and Body Protection	: Wear suitable protective clothing.
<b>Respiratory Protection</b>	: If exposure limits are exceeded or irritation is experienced, approved respiratory
	protection should be worn. In case of inadequate ventilation, oxygen deficient
	atmosphere, or where exposure levels are not known wear approved respiratory

: When using, do not eat, drink or smoke.

protection.

Other Information

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES				
9.1. Information on Basic Physical and Chemical Properties				
Physical State	: Liquid			
Appearance	: Clear			
Odor	: Odorless			
Odor Threshold	: No data available			
рН	: No data available			
Evaporation Rate	: <1			
Melting Point	: No data available			
Freezing Point	: $\approx 0 \degree C$ (for water) (32 °F)			
Boiling Point	: $\approx$ 100 °C (for water) (212 °F)			
Flash Point	: No data available			
Auto-ignition Temperature	: No data available			
Decomposition Temperature	: No data available			
Flammability (solid, gas)	: Not applicable			
Vapor Pressure	: 14 mm Hg (for water)			
Relative Vapor Density at 20°C	: 0.7 (for water)			
Relative Density	: 1 (for water)			
Solubility	: Water: Complete			
Partition Coefficient: N-Octanol/Water	: No data available			
Viscosity	: No data available			
9.2. Other Information No additional information	mation available			

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity:** Hazardous reactions will not occur under normal conditions.

**10.2.** Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

**10.3.** Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

**10.4.** Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials.

**10.5. Incompatible Materials:** Strong oxidizing agents, aluminum cyanides, esters, sodium hypophosphite, stannous chloride and thiocyanates.

**10.6.** Hazardous Decomposition Products: None expected under normal conditions of use.

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According to F					
-	11: TOXICOLOGICAL INFORMATION				
11.1.	nformation on Toxicological Effects				
Acute T	Acute Toxicity (Oral): Not classified				
	xicity (Dermal): Not classified				
Acute T	xicity (Inhalation): Not classified				
	d, copper(2+) salt, trihydrate (10031-43-3)				
LD50 O	l Rat 940 mg/kg				
	sion/Irritation: Not classified				
Serious E	e Damage/Irritation: Not classified				
Respira	ory or Skin Sensitization: Not classified				
	I Mutagenicity: Not classified				
Carcino	enicity: Not classified				
-	ctive Toxicity: Not classified				
Specific	arget Organ Toxicity (Single Exposure): Not classified				
Specific	arget Organ Toxicity (Repeated Exposure): Not classified				
-	n Hazard: Not classified				
	ns/Injuries After Inhalation: Prolonged exposure may cause irritation.				
	ns/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.				
	ns/Injuries After Eye Contact: May cause slight irritation to eyes.				
	ns/Injuries After Ingestion: Ingestion may cause adverse effects.				
	Symptoms: None known.				
	12: ECOLOGICAL INFORMATION				
12.1.	Foxicity				
	General : Very toxic to aquatic life.				
	d, copper(2+) salt, trihydrate (10031-43-3)				
EC50 Da					
12.2.	Persistence and Degradability				
	(II) NITRATE, 0.1 MOLAR SOLUTION				
	ce and Degradability Not established.				
12.3.	Bioaccumulative Potential				
	(II) NITRATE, 0.1 MOLAR SOLUTION				
Bioaccu	nulative Potential Not established.				
12.4.	Mobility in Soil No additional information available				
12.5.	Other Adverse Effects				
Other I	ormation : Avoid release to the environment.				
SECTION	13: DISPOSAL CONSIDERATIONS				
13.1.	Waste Treatment Methods				
Waste I	sposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international				
regulati					
Additio	al Information: Container may remain hazardous when empty. Continue to observe all precautions.				
Ecology	Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out				
of sewe	and waterways.				
SECTION	14: TRANSPORT INFORMATION				
	ng description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was				
authored	and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.				
14.1.	n Accordance with DOT Not regulated for transport				
SECTION	15: REGULATORY INFORMATION				
15.1.	JS Federal Regulations				
Matar	732-18-5)				

## Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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15.2. US State Regulations Neither this product nor its chemical components appear on any US state lists, or its chemical components are not required to be disclosed

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION				
Date of Preparation or Latest Revision	: 08/12/2019			
Other Information	: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200			
GHS Full Toxt Dhracos:				

#### GHS Full Text Phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
H302	Harmful if swallowed
H400	Very toxic to aquatic life

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)