



Trade Name: MiniOne® Biuret Reagent

SDS

Revision Date: November 2nd, 2022

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Code: Biuret Reagent
Trade Name: MiniOne® Biuret Reagent
Chemical Name:
Synonym: Biuret Assay for protein analysis

Company Identification: Embi Tec or The MiniOne Systems
7738 Arjons Drive
San Diego, CA 92126
USA
858-684-3190

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

This experimental lab kit includes the various chemicals listed below & various plastic accessories.

Chemical Name: Copper (II) Sulphate, pentahydrate
Synonyms: Copper sulfate pentahydrate, Blue vitriol, Cupric sulfate pentahydrate
Molecular weight: 249.68 g/mol
CAS-No.: 7758-99-8
EC-No.: 231-847-6

Chemical Name: Potassium sodium tartrate tetrahydrate
Synonyms: L(+)-Tartaric acid potassium Sodium salt, Rochelle salt, Seignette salt
Molecular weight: 282.22 g/mol
CAS-No.: 6381-59-5
EC-No.: 206-156-8

Chemical Name: Potassium Iodide
Synonyms: Pima, Kali iodide, Thyro-Block
Molecular weight: 166 g/mol
CAS-No.: 7681-11-0
EC-No.: 231-659-4

Chemical Name: Sodium Hydroxide
Synonyms: Caustic soda, Sodium hydrate, Soda lye
Molecular weight: 40 g/mol
CAS-No.: 1310-73-2
EC-No.: 215-185-5

Chemical Name: Nanopure water
Synonyms: Deionized water
Molecular weight: 18.02 g/mol
CAS-No.: 7732-18-5
EC-No.: N/A



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SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance/mixture: Not a hazardous substance

GHS Label Elements: Not a hazardous substance

Hazards not classified or not covered by GHS: None

SECTION 4: FIRST AID MEASURES

Description of first aid measures:

General advice: Move out of dangerous area

Skin contact: Wash off immediately with plenty of water

Eye contact: Rinse immediately with plenty of water as a precaution, also under the eyelids

Ingestion: Get medical attention immediately; never give anything by mouth to an unconscious person; rinse mouth with water

Inhalation: Move to fresh air

Notes To physician: Treat symptomatically

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical, water spray, alcohol-resistant foam or carbon dioxide

Special hazards arising from substance/mixture: Carbon oxides, sodium oxides

Special Protective Equipment for Firefighters: Wear self-contained breathing apparatus and protective suit

Further Information: No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment

Emergency Procedures: Avoid dust formation. Avoid breathing vapor, mist or gas

Methods for Cleaning Up: Soak up with inert absorbent material, if needed

SECTION 7: HANDLING AND STORAGE

Handling: No special handling advice required

Storage: Keep in properly labeled containers. Stored at 10 to 25 °C (recommended).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: Contains no substance with occupational exposure limit values.

Exposure Limit Values: None established

Exposure Controls: Use process enclosures, local exhaust ventilation, or other engineering controls as needed

Respiratory Protection: Not required. If prefer, use an approved air-purifying respirator.

Eye/Face Protection: Use safety glasses or chemical goggles

Skin/Hand Protection: Use chemical gloves as needed. Wear lightweight protective clothing

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice

Environmental Exposure

Controls: Prevent product from entering drains

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Blue liquid

Odor: Data not available

Flash Point: Data not available

Viscosity: Data not available

Solubility: Aqueous solution; 500 g/l at 20 °C



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Density: Data not available
Boiling Point: Data not available
Melting Point: >300 °C
pH: Basic

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Data not available
Stability: Stable under recommended storage conditions
Materials to Avoid: Strong oxidizing agents
Hazardous Decomposition
Products: No information available
Polymerization: Hazardous polymerization does not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity: Data not available
Skin corrosion/irritation: Data not available
Serious eye irritation: Data not available
Respiratory/skin irritation: Data not available
Additional information:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. However, when the product is handled appropriately, hazardous effects are unlikely to occur. Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: ECOLOGICAL INFORMATION

No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations; offer surplus to a licensed disposal company if necessary.

SECTION 14: TRANSPORT INFORMATION

DOT (US): Not dangerous goods
IMDG: Not dangerous goods
IATA Proper Shipping Name: Not classified as dangerous in the meaning of transport regulations
IATA Hazard Class: Not classified as hazardous for transport

SECTION 15: REGULATORY INFORMATION

US Federal Regulations:
SARA 302 Components:
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components:
This material does not contain any chemical components with known CAS #s that exceed the threshold reporting levels of SARA Title III, Section 313.

US State Regulations:
Sodium hydroxide can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts. Cupric sulfate pentahydrate can be found on the following state Right-to-Know lists: California, New Jersey, Pennsylvania, Massachusetts.

EU Regulations:
This preparation does not meet the dangerous preparations classification criteria under 1999/45/EC.



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Components are listed on EINECS or exempted from listing.

Canadian Regulations:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and contains the information required by the CPR.

This product is classified as “non-controlled” under the WHMIS Hazard Class.

SECTION 16: OTHER INFORMATION

This product is sold for educational, research and/or development purposes only. It is not intended for food, drug, household, agricultural, or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since Embi Tec and The MiniOne Systems cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

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End of Material Safety Data Sheet