

MATERIAL SAFETY DATA SHEET

Section 1 - Identification of the substances/mixtures and of the company/ undertaking.

A. Product Information-

Product Name: Benedict's Quantitative Reagent
Product Code No.:BA061

REACH registration no. - This product is a mixture. REACH registration no.is not available for this product

B. Relevant identified uses of the substance/mixture and uses advised against-

Relevant identified uses- For Institutional/Industrial and laboratory use. For *in-vitro* diagnosis. Not for medicinal /Drug use

C Manufacturer's Name:

BIOMARK LABORATORIES
135/1, DALVI WADI, DHAIRI,
Pune - 411 041. INDIA

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E-mail: biomarklabs@gmail.com

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Section 2: Composition/Information on Ingredients

This mixture is not classified as hazardous.

Formula

Reagents:

Copper sulphate	18.00 g
Sodium carbonate	100.00 g
Sodium citrate	200.00 g
Potassium thiocyanate	125.00 g
Potassium ferricyanide	250.00 mg
Distilled water	1000.00 ml

Irritant material

Hazardous Component	CAS-No.	Hazard Symbol	Risk Phrases	Safety Phrases
Copper sulphate	7758-98-7	Xn(Harmful)	R 22-36/38-50/53	S 22-60-61
Potassium thiocyanate	333-20-0	Xn(Harmful)	R 20/21/22 -32 - 52/53	S 36/37/39

Hazardous Component	CAS-No.	Hazard Symbol
Sodium carbonate	497-19-8	NA
Sodium citrate	6132-04-3	NA
Potassium ferricyanide	13746-66-2	NA

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Section 3: Health Hazards Identification

Refer Section 2 and 15.

Section 4: First Aid Measures

General Information: No special measures required.

Ingestion: If swallowed, seek medical attention if symptoms occur. Show physician product label or MSDS.

Inhalation: If inhaled, supply fresh air or oxygen. Seek medical attention if breathing becomes labored or difficult

Eye Contact: Rinse opened eye for at least 15 minutes under running water, lifting lower and up eyelids occasionally. Seek medical attention.

Skin Contact: Remove contaminated clothing. Immediately wash with plenty of soap and water for at least 15 minutes. Wash clothing before reuse. Seek medical attention if irritation develops.

Section 5: Fire Fighting Measures

Use Carbon dioxide, ABC multipurpose dry chemical, or water spray. Fight larger fires with water spray or alcohol resistant foam. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6: Accidental Release Measures

Personal Precautions: Wear suitable protective clothing. Remove contaminated exhaustion at the workplace.

Environmental Precautions: Prevent dispersion of material. Wipe up with damp sponge or mop.

Clean-up Methods: Avoid prolonged or repeated exposure. Absorb material, ventilate area, and wash spill site after material has been cleaned up. Avoid inhalation, contact with eyes and skin. Prevent formation of dust.

Section 7: Handling and Storage

Handling: Refer to Section 8

Storage: Store below 30°C.

Section 8: Exposure Controls/ Personal Protection

Wear appropriate NIOSH/MSHA-approved respirator, chemical-resistant gloves, safety goggles, other protective clothing. Mechanical exhaust required.

Section 9: Physical and Chemical Properties

Appearance: Liquid

Colour: Blue

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Section 10: Stability and Reactivity

Stability: Stable under recommended storage and handling conditions

Conditions to avoid: Exposure to heat and light.

Section 11: Toxicological Information

LD/LC50 values that are relevant: N/A

Carcinogenicity: Not listed.

Section 12: Ecological Information

Ecotoxicity Tests: No specific data available.

Section 13: Disposal Considerations

Disposal consideration: Non- hazardous waste. Dispose of according to all federal, state and local applicable regulations.

Container information: Containers should be cleaned by appropriate methods and then reused or disposed of by landfill or incineration as applicable.

Section 14: Transport Information

DOT Regulations: Not Regulated

Not classified. **14.1 UN number**

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user-no

Further information

Not classified as dangerous in the meaning of transport regulations.

Section 15: Regulatory Information

Risk Phrases:

R22, Harmful if swallowed.

R36/38, Irritating to eyes and skin.

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R50/53, Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R20/21/22, Harmful by inhalation, in contact with skin and if swallowed.

R32, Contact with acids liberates very toxic gas.

R52/53, Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S22, Do not breathe dust.

S60, This material and its container must be disposed of as hazardous waste.

S61, Avoid release to the environment. Refer to special instructions/safety data sheets.

S36/37/39, Wear suitable protective clothing, gloves and eye/face protection.

Section 16: Other Information

Information contained herein is believed to be accurate and is offered in good faith for the user's consideration and investigation. No warranty is expressed or implied regarding the completeness or accuracy of this information. Users of this material should satisfy themselves by independent investigation of current scientific or medical information that this material may be safely handled.