

MATERIAL SAFETY DATA SHEET

Section 1: Company Identification and Product information

Product Name: Nessler's Reagent

Product Code No.:BA070

Manufacturer's Name:

BIOMARK LABORATORIES

135/1, DALVI WADI, DHAIRI,

NARHE NANDED ROAD

Pune - 411 041. INDIA

Tel. No. : 91 02024380877/24380026/8459755093

E-mail: biomarklabs@gmail.com

Date of revision: July 2020

Section 2: Composition/Information on Ingredients

Formula

Reagents:

*Potassium iodide 50.00 g
Distilled water 50.00 ml

Saturate with *mercuric chloride solution until permanent precipitate just appears.
Add 200 ml of *NaOH of 5M/liter. Make up volume to 1 liter with distilled water.
Use clear supernatant as Nessler's reagent.

*Harmful / Toxic / Corrosive material

Hazardous Components	CAS-No.	Hazard Symbol	Risk Phrases	Safety Phrases
Potassium iodide	7681-11-0	Xi (Irritant)	R 42/43	S 22-36/37-45
Mercuric chloride	7487-94-7	Toxic	R 28-34-48/24/25-50/53	S 36/37/39-45-60-61
Sodium hydroxide solution	1310-73-2	Corrosive	R 35	S 26-37/39-45

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.

MATERIAL SAFETY DATA SHEET

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: Pale yellow

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.

MATERIAL SAFETY DATA SHEET

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.

Section 15: Regulatory Information

Risk Phrases:

R42/43, May cause sensitization by inhalation and skin contact.

R28, Very toxic if swallowed.

R34, Causes burns.

R48/24/25, Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.

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

R35, Causes severe burns.

Safety Phrases:

S22, Do not breathe dust.

S36/37, Wear suitable protective clothing and gloves.

S45, In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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

S26, In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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.

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.