



Biochemical Diagnostics, Inc.

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MATERIAL SAFETY DATA SHEET

GENERAL INFORMATION

TRADE NAME: m-Dinitrobenzene

Catalog Number: 3506250-5

Part of Kits: 3506101-1, 3506095-2, 3506111-8

Chemical Name: m-Dinitrobenzene

CAS #: 99-65-0

Formula: C₆H₄N₂O₄

INGREDIENTS

Components: m-Dinitrobenzene

Threshold Limit Values: N/A

PHYSICAL DATA

Boiling Point: 291C

Vapor Pressure: N/A

Vapor Density: N/A

Specific Gravity: 1.368

Percent Volatile: N/A

Evaporation Rate: N/A

Solubility H₂O: Practically insoluble

pH: N/A

Appearance: Yellow, fine crystals

Odor: N/A

Melting Point: 89C

Molecular Weight: 168.11 AMU

FIRE AND EXPLOSION HAZARD DATA

Flammable Limits in air % by volume:

Lel: N/A

Uel: N/A

Flash Point: 150C/ 302F

Auto Ignition Temp: N/A

Extinguishing Media: Water spray, carbon dioxide, dry chemical powder or appropriate foam

Special Fire Fighting Procedures: Wear proper protective equipment w/Self contained breathing apparatus

Unusual Fire and Explosion Hazards: None identified

REACTIVITY DATA

Stability: May be shock sensitive

Incompatibility: Oxidizing agents, reducing agents, strong bases

Hazardous Polymerization: Not known.

Hazardous Decomposition: Thermal decomposition may produce carbon monoxide, carbon dioxide and nitrogen oxides

ENVIRONMENTAL PROTECTION PROCEDURES

Spill Response: Wear suitable clothing, carefully sweep up and hold for waste disposal. Avoid raising dust, ventilate area and wash spill site.

Waste Disposal Method: Dispose in accordance with state, local and federal regulations. Contact licensed professional waste disposal service to dispose of this material.

SPECIAL PROTECTION INFORMATION

Eye Protection: Chemical safety goggles

Skin Protection: Rubber Gloves, Rubber apron

Respiratory Protection: NIOSH/MSHA approved respirator

Ventilation: Keep vapor levels as low as possible, use chemical fume hood.

SPECIAL PRECAUTIONS

Insert Precautions:

Keep container tightly closed. Store in a cool dry place.

Contaminated Equipment Precautions: Wash thoroughly with soap and water.

Hygienic Handling and Storage: Wash thoroughly with soap and water.

EMERGENCY AND FIRST AID PROCEDURES:

Ingestion: May be fatal if swallowed, wash out mouth with water and seek medical attention.

Inhalation: Remove to fresh air, give CPR or oxygen as needed. Do not breathe dust, may be fatal if inhaled.

Skin Contact: Wash immediately with copious amounts of water and seek medical attention. May be fatal if absorbed through skin.

Eye Contact: Rinse with copious amounts of water seek medical attention.

Signs and symptoms of Exposure:

Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer. Symptoms of exposure include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

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