



Biomolecules for research

MATERIAL SAFETY DATA SHEET

Section 1 : Substance Identification

Name: IBMX

CAS Number: 28822-58-4

Catalog Number: PD-140

Chemical Formula: C₁₀H₁₄N₄O₂

Chemical Name: 3-Isobutyl-1-methylxanthine

Chemical Class: Xanthine

Company Identification: BIOMOL International L.P.
5120 Butler Pike
Plymouth Meeting PA 19462-1202 USA
(610) 941-0430 (9am-5pm ET)

Section 2 : Health Hazard Data

Acute Health Effects: May be harmful if ingested, inhaled, or absorbed through the skin. May cause eye or skin irritation. To the best of our knowledge, the toxicological properties of this compound have not been fully investigated. Exercise appropriate precautions to prevent opportunities for inhalation, and to prevent direct contact with skin and eyes. All uncharacterized chemicals should be treated as suspected toxins.

Chronic Health Effects: Target organs: Nerves, kidneys, and heart. The effects of prolonged or repeated exposure to this compound are unknown.

Section 3 : First Aid Measures

Eye Contact: Check for and remove contact lenses. Flush eyes with running water for at least 15 minutes separating eyelids. **Seek medical attention immediately**

Skin Contact: Wash with soap and water for 15 minutes. Remove contaminated clothing and shoes. **Seek medical attention immediately.**

Inhalation: Remove from exposure. If breathing is difficult, administer oxygen. If breathing stops, administer artificial respiration. **Seek medical attention immediately.** Provide chemical label and MSDS if possible.

Ingestion: Remove dentures and clear mouth. If person is conscious, rinse mouth with water. **Call physician or poison control immediately.** Provide chemical label and MSDS information if possible.

Section 4 : Fire and Explosion Data

Flammability: Not Available

Flash Point: Not Available

Combustion Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides

Extinguishing Media: Carbon Dioxide, Dry chemical powder, polymer foam, water spray

Special Firefighting Procedures: Use self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire/Explosion Hazards: None known

Section 5 : Spill or Leak Procedures

Cleanup Procedures: **EVACUATE AREA** Wearing appropriate protective gear as outlined under "Protective equipment" wipe up spill and place in sealed container and hold for disposal. Avoid raising dust. Ventilate the area and wash spill site after material has been removed.

Waste Disposal Method: Observe all Federal, State and Local regulations concerning the disposal of this product.

Section 6 : Storage and Handling Precautions

Protective Equipment: For spill clean up, wear suitable protective clothing, chemical resistant rubber gloves, rubber boots, and chemical safety goggles. Self contained breathing apparatus or NIOSH/MSHA approved respirator is required.

Storage and Handling: This product should be stored at room temperature. It should be kept in a tightly closed container. This product should be handled only by qualified experienced professionals. Wash thoroughly after handling this material

Section 7 : Physical Data

Appearance: White solid

Molecular Weight: 222.2

Boiling Point: Not Available

Solubility: DMSO, Ethanol

Specific Gravity: Not Available

Volatility: Not Available

Odor: Not Available

Taste: Not Available

Melting Point: 199-201°C

Vapor Density: Not Available

Vapor Pressure: Not Available

Section 8 : Stability and Reactivity Data

Stability: This material is stable if stored as directed

Conditions to Avoid: None known

Incompatibles: Strong oxidizing agents

Section 9 : Toxicity Data

RTECS#: ZD8500000

I.P. LD50: Mouse : 44mg/kg

Section 10 : Ecological Data

Ecotoxicological Information: None Available

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

Emergency Contact:

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Last Revised : 3/25/04