

2935310

Johnson Matthey
Alfa Aesar
30 Bond Street
Ward Hill, MA 01835

February 27, 1996

Dartmouth College
Attn: Sugden
Chemistry Department
Burke Lab
Hanover NH 03755

RE: Order # 2935310

Dear Customer:

Thank you for your order. Attached you will find material safety data sheets for the products you've received.

We are committed to providing you the highest levels of quality and service--your satisfaction is our most important concern. Please feel free to call us with your comments and suggestions at 1-800-343-0660.

We have responded to your requests to reduce our use of foam peanuts when shipping product to you. Shredded paper and cardboard are recycled as packing materials whenever possible. The foam peanuts, occasionally used, are manufactured without the use of any ozone depleting substances. Expanded vermiculite will be used when required for shipping certain hazards.

We sincerely thank you for your past and continued support.

Sincerely,

Johnson Matthey
Alfa Aesar

P.S. To service you better, we have extended our customer service hours to 8 A.M. to 6 P.M. E.S.T.

Johnson Matthey
30 Bond Street
Ward Hill, MA 01835-8099

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Johnson Matthey



MATERIAL SAFETY DATA SHEET

Johnson Matthey
Alfa Aesar
30 Bond Street
Ward Hill, MA 01835-0747
Emergency Phone-(508) 521-6300
CHEMTREC-(800) 424-9300

IDENTIFICATION

Product Code: 37122 Revision Date: 12/3/90
Product Name: Dimethylmercury
Formula: (CH₃)₂Hg
Chemical Nature: Metal alkyl
% Activity: 100%

PHYSICAL DATA

Boiling Point: 96°C
Melting Point: No data
Specific Gravity: 2.95
Vapor Pressure at 20°C: No data
Vapor Density (Air=1): No data
Solubility in H₂O: Insoluble
Percent Volatiles by Weight: 100%
Ionic Nature: No
Appearance and Odor: Colorless, volatile, liquid, sweet odor (DO NOT SMELL)

0.7 mL x 2.95 g/mL

HAZARDOUS INGREDIENTS

Material	%	TLV/PEL
Dimethylmercury	100%	0.01 mg/m ³
CAS# 593-74-8		

FIRE AND EXPLOSION HAZARD DATA

Flash Point: No data
Autoignition Temperature: No data
Flammable Limits in Air, % by volume: Lower No data
Upper No data
Extinguishing Media: Use water, carbon dioxide, dry chemical extinguishing agents, dry sand, or dry ground dolomite.
Special Fire Fighting Procedures: No special firefighting procedures needed. Use normal procedures which include wearing NIOSH/MSHA approved self-contained breathing apparatus, flame and chemical resistant clothing; hats, boots and gloves. If without risk,

remove material from fire area. Cool container with water from maximum distance.

Unusual Fire and Explosion Hazards: Highly toxic Mercury containing fumes are emitted when heated to decomposition

HEALTH HAZARD DATA

Threshold Limit Value: 0.01 mg/m³

Effects of Overexposure: Can cause skin burns and other forms of irritation. Absorption through skin can cause central nervous system damage. Permanent nervous system damage can occur even from a short exposure. Exposure may result in death.

Emergency and First Aid Procedures: Remove from exposure. Eyes: Flush with copious amounts of water for at least 15 minutes. Skin: Remove any contaminated clothing. Flood skin with large volumes of water for 15 minutes. Ingestion/Inhalation: Seek prompt, competent medical attention.

REACTIVITY DATA

Stability: Stable

Conditions to Avoid: When heated to decompose, toxic fumes evolve.

Incompatibility: No data

Hazardous Decomposition Products: Toxic fumes containing mercury compounds

Hazardous Polymerization: Will not occur

Conditions to Avoid: Not applicable

SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled: Wearing full protective clothing and respiratory protection, eliminate all sources of ignition. Cover spill with dry sand or dry vermiculite, mix well and carefully transfer to a well-marked container. Close container tightly. Submit or retain for disposal.

Waste Disposal Method: Consult state, local, and federal regulations for proper disposal.

SPECIAL PROTECTION INFORMATION

Respiratory Protection: NIOSH/MSHA approved self-contained breathing apparatus.

Ventilation- Local exhaust: Fume hood with high air velocity and smooth even air flow.

Mechanical: Not adequate

Special: Glove box vented to fume hood

Other: Not required

Protective Gloves: Rubber

Eye Protection: ANSI approved safety goggles with full face shield

Other Protective Equipment: Lab coat and apron, flame and chemical resistant coveralls, eyewash capable of sustained flushing, safety drench shower and hygienic facilities for washing.

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SPECIAL PRECAUTIONS

Precautionary Labeling: DANGER: Flammable, causes CNS damage.

Poisonous: avoid contact with skin; ingestion, or inhalation.

Other Handling and Storage Conditions: Keep container tightly closed. Store in a cool, dry, well-ventilated area. Wash thoroughly after use.

This product contains a mercury compound which is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40CFR 372.

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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