Material Safety Data Sheet

acc. to OSHA and ANSI

Printing date 06/14/2004 Reviewed on 05/21/2004

1 Identification of substance:

   - Product details:

   - Product name: 2,2-Dimethoxypropane

   - Stock number: A13810

Manufacturer/Supplier:

Alfa Aesar, A Johnson Matthey Company
Johnson Matthey Catalog Company, Inc.
30 Bond Street
Ward Hill, MA 01835-8099
Emergency Phone: (978) 521-6300
CHEMTREC: (800) 424-9300
Web Site: www.alfa.com

Information Department: Health, Safety and Environmental Department

Emergency information:

During normal hours the Health, Safety and Environmental Department. After normal hours call Chemtrec at (800) 424-9300.

2 Composition/Data on components:

   - Chemical characterization:

      Description: (CAS#)

      2,2-Dimethoxypropane (CAS# 77-76-9); 100%

   - Identification number(s):

      - EINECS Number: 201-056-0

3 Hazards identification
• Protective equipment:
  Wear self-contained respirator.
  Wear fully protective impervious suit.

6 Accidental release measures

• Person-related safety precautions:
  Wear protective equipment. Keep unprotected persons away.
  Ensure adequate ventilation
  Keep away from ignition sources

• Measures for environmental protection:
  Do not allow material to be released to the environment without proper governmental permits.

• Measures for cleaning/collecting:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Ensure adequate ventilation.
  Do not flush with water or aqueous cleansing agents
  Keep away from ignition sources.

• Additional information:
  See Section 7 for information on safe handling
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

7 Handling and storage

• Handling

• Information for safe handling:
  Keep container tightly sealed.
  Store in cool, dry place in tightly closed containers.
  Ensure good ventilation at the workplace.
  Open and handle container with care.

• Information about protection against explosions and fires:
  Keep ignition sources away.
  Protect against electrostatic charges.
  Fumes can combine with air to form an explosive mixture.
  Do not distill to dryness.

• Storage

• Requirements to be met by storerooms and receptacles:
  Store in a cool location.
- **Odor**: Not determined

- **Change in condition**

- **Melting point/Melting range**: $-47 \, ^\circ \text{C}$

- **Boiling point/Boiling range**: $83 \, ^\circ \text{C}$

- **Sublimation temperature / start**: Not determined

- **Flash point**: $-7 \, ^\circ \text{C}$

- **Ignition temperature**: Not determined

- **Decomposition temperature**: Not determined

- **Danger of explosion**: May form explosive peroxides.

  Do not distill to dryness.

- **Explosion limits**:
  - **Lower**: $6 \, \text{Vol} \, \%$
  - **Upper**: $31 \, \text{Vol} \, \%$

- **Vapor pressure**: at $15 \, ^\circ \text{C}$ $79.8 \, \text{hPa}$

- **Density**: at $20 \, ^\circ \text{C}$ $0.84 \, \text{g/cm}^3$

- **Solubility in / Miscibility with**

  - **Water**: Decomposes

  Not determined

- **10 Stability and reactivity**

  - **Thermal decomposition / conditions to be avoided**:
Consult state, local or national regulations to ensure proper disposal.

- Uncleaned packagings:
- Recommendation:
  Disposal must be made according to official regulations.

14 Transport information

- DOT regulations:
- Hazard class: 3
- Identification number: UN3271
- Packing group: II
- Proper shipping name (technical name):
  Ethers, n.o.s., 2,2-Dimethoxypropane

Land transport ADR/RID (cross-border)
- ADR/RID class: 3 Flammable liquids
- Item: 3b
- Danger code (Kepler): 33
- UN-Number: 3271
- Description of goods: Ethers, n.o.s., 2,2-Dimethoxypropane

Maritime transport IMDG:
- IMDG Class: 3
- UN Number: 3271
- Packaging group: II
- Proper shipping name: Ethers, n.o.s., 2,2-Dimethoxypropane

Air transport ICAO-TI and IATA-DGR:
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.

- **Department issuing MSDS**: Health, Safety and Environmental Department.

- **Contact**: Darrell R. Sanders