

MATERIAL SAFETY DATA SHEET

Product Name: 2,2-Dimethoxypropane

Catalog Number: 20410

DOT Hazard Class: 3 (Flammable Liquid)

DOT Proper Shipping Name: Flammable liquid, n.o.s. (Dimethoxypropane)

UN/NA ID No.: UN 1993

MSDS Updated: 9/2011

Distributed By: Ladd Research

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HAZARDOUS COMPONENTS

	<i>CAS Number</i>	<i>Percent</i>	<i>Exposure Limits</i>
Dimethoxypropane	77-76-9	>98%	Not established

PHYSICAL AND CHEMICAL DATA

Boiling Point: 80°C

Vapor Density: 3.59 (air = 1)

Specific Gravity: 0.85

Solubility in Water: Soluble

Evaporation Rate: >1.0 (ethyl ether = 1)

FIRE AND EXPLOSION HAZARD DATA

Flash Point: -5.0°C (Tag Closed Cup)

Explosive Limits: Lower = 6% @ 27°C; Upper = 31% @ 58°C

Fire and Explosion Hazards: Vapor is heavier than air and may travel considerable distance along the ground to ignition sources and flash back. Container explosion may occur under fire conditions. Use water spray to cool fire-exposed containers.

Extinguishing Media: Carbon dioxide, dry chemical or appropriate foam.

Fire Fighting Instructions: Water can be used to cool fire-exposed containers, personnel and to disperse spills.

HEALTH HAZARD DATA

Primary Routes of Entry: Mist inhalation and skin contact

Eyes: High vapor concentrations can cause severe eye irritation.

Skin: Prolonged or repeated contact with liquid or mist can cause skin irritation.

Ingestion: Symptoms may include ataxia, followed by rapid recovery. The concentrated liquid is a strong irritant to mucous membranes and the respiratory system.

Inhalation: Overexposure may cause anesthetic effect with respiratory irritation.

EMERGENCY AND FIRST AID

Eyes: Immediately flush with large amounts of water for at least 15 minutes, lifting the eye lids occasionally. If irritation persists, consult a physician.

Skin: Immediately flush with plenty water. Remove contaminated clothing. If symptoms persist seek medical attention.

Ingestion: Keep person quiet and get immediate medical attention. Consult a physician before any attempt to induce vomiting. This product can be strongly irritating to mucous membranes.

Inhalation: Remove individual to fresh air. Obtain medical attention if effects of overexposure develop.

REACTIVITY DATA

Stability: Stable

Incompatible Materials: Strong acids. Do not use for dehydration of hydrated manganese or nickel perchlorate, as violent explosions will occur.

Hazardous Polymerization: Will not occur.

SPILL, DISPOSAL AND STORAGE INFORMATION

Spill: Eliminate all ignition sources. Evacuate area. Stop spill at source and dike spill area to prevent spreading. Absorb liquid with sand or similar absorbent material. Sweep up and keep in tightly closed containers for disposal. Ventilate area and wash spill site after material pick up is complete.

Disposal: Incineration is the recommended disposal method for dimethoxypropane. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting.

DMP is a highly flammable liquid. Consult with local, state and federal regulations before proceeding.

Storage: Store only in areas suitable for flammable liquid and away from all ignition sources. Keep containers tightly closed at all times. Store in a cool, dry place and with adequate ventilation.

PROTECTIVE EQUIPMENT AND CONTROL MEASURES

Ventilation: Provide local exhaust and mechanical ventilation when used in a confined area.

Eye/Face: Chemical splash goggles, or full face shield.

Skin: Rubber or other impervious chemical resistant gloves.

Respiratory: Use a NIOSH/MSHA approved respirator with organic vapor canister.

SECTION 313 SUPPLIER NOTIFICATION

This product is subject to the reporting requirements of SARA Title III.

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