

Material Safety Data Sheet

MALONALDEHYDE BIS-(DIMETHYL ACETAL), 99+%

Section 1: Chemical Product and Company Identification

Product Name: MALONALDEHYDE BIS-(DIMETHYL ACETAL), 99+%

Catalog Code: JH-001

Cas No.: 102-52-3.

Synonym: Malonaldehyde tetramethyl acetal; 1,1,3,3-Tetramethoxypropane; TMOP

Chemical Name: MALONALDEHYDE BIS-(DIMETHYL ACETAL), 99+%

Chemical Formula: C₇H₁₆O₄

Contact Information:

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #
MALONALDEHYDE BIS-(DIMETHYL ACETAL), 99+%	102-52-3

Section 3: Hazards Identification

EMERGENCY OVERVIEW

The toxicological properties of this material have not been fully investigated.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May be harmful if swallowed.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic: Not available.

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Section 4: First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Get medical aid. Wash mouth out with water.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Section 5: Fire and Explosion Data

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Will burn if involved in a fire. Combustible liquid.

Extinguishing Media: Use water spray to cool fire-exposed containers. Use water spray, dry chemical, carbon dioxide, or chemical foam.

Section 6: Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool.

Section 7: Handling and Storage

Handling:

Use spark-proof tools and explosion proof equipment. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Take precautionary measures against static

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discharges.

Storage:

Keep away from sources of ignition. Store in a cool ,dry place. Store in a tightly closed container.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA 's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin :Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 9: Physical and Chemical Properties

Physical State: Clear liquid

Color: colorless - yellow-brown

Odor: fruity odor

pH: Not available.

Vapor Pressure: < 1 hPa @ 20 deg C

Viscosity: Not available.

Boiling Point: 183 deg C @ 760.00mm Hg

Freezing/Melting Point: Not available.

Autoignition Temperature: Not available.

Flash Point: 60 deg C (140.00 deg F)

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature:

Solubility in water: IMMISCIBLE WITH WATER (20°C)

Specific Gravity/Density: 9970g/cm³

Molecular Formula: C₇H₁₆O₄

Molecular Weight: 164.20

Section 10: Stability and Reactivity Data

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Chemical Stability: Not available.

Conditions to Avoid: Incompatible materials, ignition sources, exposure to moist air or water.

Incompatibilities with Other Materials: Strong oxidizing agents, strong acids.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported.

Section 11: Toxicological Information

LD50/LC50: Not available.

Oral, rat: LD50 = 2190 mg/kg

Carcinogenicity:

MALONALDEHYDE BIS-(DIMETHYL ACETAL), 99+% -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

See actual entry in RTECS for complete information.

Section 12: Ecological Information

Section 13: Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14: Transport Information

IATA

Shipping Name: FLAMMABLE LIQUID, N.O.S.*

Hazard Class: 3

UN Number: 1993

Packing Group: III

IMO

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RID/ADR

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.

Section 15: Other Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases: S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 102-52-3: 1

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

CAS# 102-52-3 is listed on Canada's DSL List.

CAS# 102-52-3 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 102-52-3 is listed on the TSCA inventory

Section 16: Other Information

References: N/A.

Other Special Considerations: N/A.

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