



MEDICAL ISOTOPES, Inc.

100 Bridge Street, Pelham, NH 03076, USA

Tel: (603) 635-2255 Fax: (603) 635-2448

E-mail: info@medicalisotopes.com Internet: www.medicalisotopes.com

SAFETY DATA SHEET

SECTION 1. Identification

Product:

Product Name: Thiodiglycol-d₈ solution in methanol
Catalog number: D111101

Supplier:

Medical Isotopes, Inc.
100 Bridge Street
Pelham, NH 03076 USA
Tel: +1-603-635-2255 Fax: +1-603-635-2448
Email: info@medicalisotopes.com

Suitability:

For laboratory use only.

Emergency Contact Information:

Call Infotrac 24/7
DOMESTIC NORTH AMERICA 1-800-535-5053 (United States, Canada, Mexico)
INTERNATIONAL, CALL 1-352-323-3500

SECTION 2. Hazard(s) identification

Hazard classification:

Flammable liquids (Category 2), H225
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 3), H331
Acute toxicity, Dermal (Category 3), H311
Specific target organ toxicity - single exposure (Category 1), Eyes, H370

Signal Word:

Danger

Hazard Statements:

H225 Highly flammable liquid and vapor.
H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled.
H370 Causes damage to organs (Eyes).

Pictogram:



Precautionary Statements:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.
P330 Rinse mouth.



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P361 Remove/ Take off immediately all contaminated clothing.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards:

None

SECTION 3. Composition/Information on Ingredients

Chemical name:

Thiodiglycol-d₈ solution in methanol

Synonyms:

N/A

CAS number:

N/A

Impurities/Additives:

Methanol, 99.87%; Thiodiglycol-d₈, 0.13%

SECTION 4. FIRST AID MEASURES

Skin Contact: Wash with soap and water for several minutes. Consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Inhalation: Remove from exposure and move to fresh air immediately. Consult a physician.

Eye Contact: Rinse thoroughly with plenty of water. Consult a physician.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Use foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self-contained breathing apparatus for fire-fighting if necessary.

Hazardous combustion products: Carbon oxides, sulfur oxides.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Make sure to wear appropriate protective equipment as listed in section 8. Avoid breathing dust, vapors, or mists.

Spill Clean-up Methods: Clean up spills immediately, observing precautions in the Protective Equipment section. Cover with a non-combustible material (e.g., sand, earth, diatomaceous earth), sweep up, and place into a suitable container for disposal. Avoid breathing the resulting dust.

SECTION 7. HANDLING & STORAGE

Usage/Handling Precautions: Make sure to wear appropriate PPE as listed in section 8. Avoid contact with skin and eyes.

Storage Conditions: Store at room temperature. Keep away from light and moisture.

SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering Controls: Use fume hood if available.

Personal Protective Equipment

Eyes: Always wear safety glasses when working with chemicals. Wear chemical goggles when working with liquids.

Skin: Wear protective gloves and a lab coat to prevent skin exposure.



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid
Odor: N/A
pH: N/A
Melting Point: N/A
Water Solubility (%): N/A
Flash Point (°C): 9.7 °C – closed cup
Vapor pressure: N/A
Autoignition Temperature (°C): N/A
Flammability Limits in Air (% by Vol.): N/A

SECTION 10. STABILITY & REACTIVITY

Reactivity: N/A
Chemical Stability: Stable under recommended storage conditions
Conditions to Avoid: Strong oxidizing agents, acid chlorides, acid anhydrides, alkali metals, reducing agents, acids, phosphorus halides, heat, flames, sparks.

SECTION 11. TOXICOLOGICAL INFORMATION

Inhalation: LC50 inhalation rat 128.2 mg/l/4h; 87.6 mg/l/6h.
Ingestion: LD50 oral rat 1187 – 2769 mg/kg
Skin and eye contact: LD50 rabbit dermal 17100 mg/kg
Other: Methyl alcohol may be fatal or cause blindness if swallowed. Effects due to ingestion may include: Headache, Dizziness, Drowsiness, metabolic acidosis, Coma, Seizures. Symptoms may be delayed., Damage of the: Liver, Kidney.

SECTION 12. ECOLOGICAL INFORMATION

N/A

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Via licensed disposal company. Dispose of according to federal, state/province and local regulations.

SECTION 14. TRANSPORT INFORMATION

DOT (US)

UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol, SOLUTION
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG

UN number: 1230 Class: 3 (6.1) Packing group: II
Proper shipping name: METHANOL, SOLUTION
Marine pollutant: No

IATA

UN number: 1230 Class: 3 (6.1) Packing group: II
Proper shipping name: Methanol, SOLUTION

SECTION 15. REGULATORY INFORMATION

N/A



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SECTION 16. OTHER INFORMATION

Preparation information: Last revised on 7/7/21

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