



## **MEDICAL ISOTOPES, Inc.**

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### **SAFETY DATA SHEET**

#### **SECTION 1. Identification**

**Product:**

Product Name: Trichloroethylene-13C2  
Catalog number: C42456

**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](mailto:info@medicalisotopes.com)

**Suitability:**

For laboratory use only.

**Emergency Contact Information:**

Call Chemtrec 24/7  
DOMESTIC NORTH AMERICA 800-424-9300  
INTERNATIONAL, CALL 703-527-3887 (collect calls accepted)

#### **SECTION 2. Hazard(s) identification**

**Hazard classification:**

Skin irritation (Category 2), H315  
Eye irritation (Category 2A), H319  
Germ cell mutagenicity (Category 2), H341  
Carcinogenicity (Category 1B), H350  
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336  
Acute aquatic toxicity (Category 3), H402  
Chronic aquatic toxicity (Category 3), H412

**Signal Word:**

N/A

**Hazard Statements:**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H341 Suspected of causing genetic defects.  
H350 May cause cancer.  
H412 Harmful to aquatic life with long lasting effects.

**Pictogram:**



**Precautionary Statements:**

Not a hazardous substance or mixture.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear eye protection/ face protection.  
P280 Wear protective gloves.  
P281 Use personal protective equipment as required.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove



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contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 Take off contaminated clothing and wash before reuse.  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
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:

Trichloroethylene-13C2

#### Synonyms:

N/A

#### CAS number:

N/A

#### Impurities/Additives:

N/A

### 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 water spray, 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. HCl Gas

### 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:** Refrigerator

### 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.

### 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):** N/A

SDS



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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.

### SECTION 11. TOXICOLOGICAL INFORMATION

Inhalation:LC50 Inhalation – Mouse - 4 h - 8450 ppm  
Ingestion: LD50 Oral - Rat - 4,920 mg/kg  
Skin and eye contact: LD50 Dermal - Rabbit - > 20,000 mg/kg  
Other:N/A

### SECTION 12. ECOLOGICAL INFORMATION

**Toxicity to fish**  
LC50 - Pimephales promelas (fathead minnow) - 41 mg/l - 96.0 h  
LOEC - other fish - 11 mg/l - 10.0 d  
NOEC - Oryzias latipes - 40 mg/l - 10.0 d  
**Toxicity to daphnia and other aquatic invertebrates**  
EC50 - Daphnia magna (Water flea) - 18.00 mg/l - 48 h  
**Toxicity to algae**  
IC50 - Pseudokirchneriella subcapitata (green algae) - 175.00 mg/l - 96 h

### 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: 1710 Class: 6.1 Packing group: III  
Proper shipping name: Trichloroethylene  
Reportable Quantity (RQ): 100 lbs  
Poison Inhalation Hazard: No  
IMDG  
UN number: 1710 Class: 6.1 Packing group: III EMS-No: F-A, S-A  
Proper shipping name: TRICHLOROETHYLENE  
IATA  
UN number: 1710 Class: 6.1 Packing group: III  
Proper shipping name: Trichloroethylene

### SECTION 15. REGULATORY INFORMATION

N/A

### SECTION 16. OTHER INFORMATION

Preparation information: Last revised on: 11/29/17

HMIS Rating  
Health hazard: 2  
Chronic Health Hazard: \*  
Flammability: 0  
Physical Hazard 0

NFPA Rating  
Health hazard: 2  
Fire Hazard: 0  
Reactivity Hazard: 0



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