

Number: Issue Date DLM-2941 04/06/11

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MATERIAL SAFETY DATA SHEET

1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Description METHYLCYCLOPENTANE (D12, 99%)

Cambridge Isotope Laboratories, Inc. 50 Frontage Rd ANDOVER, MA 01810 USA

E-mail cilsales@isotope.com Web Site www.isotope.com

Phone Numbers

Emergency Contact Emergency Phone	Chemtrec 1-800-424-9300 (24 hours)
Customer Service Phone	1-800-322-1174 (8:30-5:30 EST)
Transportation	1-202-483-7616 (24 hours)

2 HAZARDS IDENTIFICATION

OSHA Hazards Flammable liquid, Toxic by ingestion, Irritant

GHS Classification Flammable liquids (Catogory 2) Acute toxicity, Oral (Category 4) Aspiration Hazard (Category 1) Skin irritation (Category 2) Eye irritation (Category 2) Specific Target Organ Toxicity - Single exposure (Category 3)

GHS Label Information

Signal Word Danger

Hazards Identification Flame Health hazard Exclamation mark

Hazard Statement(s)



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Highly flammable liquid and vapour.

Harmful if swallowed.

May be fatal if swallowed and enters airways.

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

Precautionary Statement(s)

Keep away from heat/sparks/open flames/hot surfaces- No smoking.

Avoid breathing dust/fume/gas/mist/vapours/spray.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

IF IN EYES: Rinse with water for several minutes. Remove contact lenses.

Do NOT induce vomiting.

HMIS Ratings

Physical	0
Flammability	3
Health	2
NFPA Codes	
Fire	3
	-

Health	2
Reactivity	0

Potential Health Effects

Eyes	Causes eye irritation.
Ingestion	Toxic if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage.
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through the skin. Causes skin irritation.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Composition / Information on Ingredients

Chemical Formula	C5D9CD3
Molecular Weight	96.23
CAS No.	96-37-7 (unlabeled)
EC No.	202-503-2

4 FIRST AID MEASURES

First Aid Measures

Eyes Flush eye with water for 15 minutes. Get medical attention.

Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.



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Inhalation	If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin	Wash with soap and plenty of water. Consult a physician.
Additional Information	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

5 FIRE FIGHTING MEASURE

Fire Fighting Measures

Extinguishing Media	For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.
Fire Fighting Equipment	Wear self contained breathing apparatus for fire fighting if necessary.
Fire Fighting Procedures	Use water spray to cool unopened containers.

6 ACCIDENTAL RELEASE MEASURES

Accidental Release Measures

Personal Precautions	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and materials for containment and cleanup	Contain spillage, then collect with non-combustible absorbent material. Disposal should be in accordance with applicable Federal, State and local regulations.

7 HANDLING AND STORAGE

Precautions for Safe Handling



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Handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent build up of electrostatic charge.

Conditions for Safe Storage

Storage Store at room temperature away from light and moisture.

8 EXPOSURE CONTROL / PERSONAL PROTECTION

Personal Protecton

Eyes - Face Wear safety glasses with side shields (or goggles) and a face shield.

Skin	Choose body protection according to the amount and concentration of the dangerous substance at
	the work place.

- Respiratory When appropriate, use NIOSH/CEN approved respirator.
- Protective Clothing Wear suitable protective clothing and gloves.
- Work HygienicHandle in accordance with good industrial hygiene and safety practice. Wash hands before breaksPracticesand at the end of workday.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties (Unlabeled Compound)

Form	Liquid
Color	Colourless
pH Melting Point Boiling Point Flashpoint Lower Explosion Limit	No data available - 142.0 °C (- 223.6 °F) 71.0 - 73.0 °C (159.8 - 163.4 °F) - 29.0 °C (- 20.2 °F) - closed cup 1.2% (V)
Upper Explosion Limit	8.35% (V)
Density	0.75 g/cm3
Solubility in Water	No data available
Auto Ignition	329 °C (624 °F)
Temperature	



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10 STABILITY AND REACTIVITY

Stability and Reactivity

Chemical Stability	Stable if stored under recommended conditions.
Possibility of Hazardous Reactions	Vapors may form explosive mixture with air.
Conditions to Avoid	Avoid Heat, Flames and Sparks.
Hazardous decomposition products	Formed under fire conditions: Carbon oxides

Materials to avoid Strong oxidizing agents

11 TOXICOLOGICAL INFORMATION

Acute Toxicity Serious Damage/Eye Irritation	No data available
Skin Corrosion/Irritation	No data available
Inhalation	The substance or mixture is known to cause human aspiration toxicity hazards.
Respiratory or Skin Sensitization	Not available
Germ Cell Mutagenicity	Not available
IARC	No component of the product present at levels greater than or equal to 0.1 % is identifiable as probable, possible, or confirmed human carcinogen by IARC.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.
NTP	No component of this product present at levels greater than or equal to 0.1 % is identified as a known or anticipated carcinogen by NTP.
OSHA	No component of this product present at levels greater than or equal to 0.1 % is identified as a carcinogen or potential carcinogen by OSHA.



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Reproductive Toxicity

Not available

Specific Target Organ Toxicity Single Exposure Inhalation - May cause respiratory irritation

Repeated Exposure No data available

Signs and Symptoms of Exposure

The chemical, physical, and toxicological properties have not been thoroughly investigated.

Other Information RTECS

GY4640000

12 ECOLOGICAL INFORMATION

Toxicity

Persistance and Degradability	Not available
Bioaccumulative Potential	Not available
Mobility in Soil	Not available
PBT and vPvB Assessment	Not available
Other Adverse Effects	Not available

13 DISPOSAL CONSIDERATIONS

Disposal Considerations

Product Disposal Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.

14 TRANSPORT INFORMATION

Transportation Information-DOT/IATA/IMDG

UN Number 2298



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Prop. Ship. NameMethylcyclopentaneHazard Class3Packing GroupIIMarine PollutantNoPoison InhalationNoHazardNo

15 REGULATORY INFORMATION

Regulatory Information

Flammable liquid, Toxic by ingestion, Irritant

Υ

Υ

SARA

Sara 302	No chemicals in this material are subject to the reporting requirements.
Component	
Sara 313	No chemicals in this material are subject to the reporting requirements.
Component	

SARA 311/312 Hazards

Fire (Y/N)

Acute (Y/N)

STATE REGULATIONS

Massachusetts	Yes
Right to Know	
Pennsylvania Right to Know	Yes
New Jersey Right	Yes
to Know	
California	This product does not contain any chemicals known to State of California to cause cancer, birth
Proposition 65	defects, or any other reproductive harm.
Canada	
DSL Status	All components are on the Canadian DSL list.
EU	

Hazard Flammable. Harmful.

Safety Statements

Keep away from sources of ignition - No smoking. For waste disposal purposes, this product is not known to be defined or designated as hazardous by current



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provisions of the Federal (EPA) resource Conservation and Recovery Act (RCRA, 40CFR261).

Take precautionary measures against static discharges.

Wear suitable protective clothing.

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Risk Statements

Highly flammable. Irritating to eyes, respiratory system and skin. Harmful: may cause lung damage if swallowed.

16 OTHER INFORMATION

Additional MSDS This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

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