

Page 1 of 7

MATERIAL SAFETY DATA SHEET

1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Description VERATROLE (4,5-D2, 98%)

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 Combustible Liquid, Harmful by ingestion

GHS Classification Acute toxicity, Oral (Category 4)

GHS Label Information

Signal Word Warning

Hazards Identification Exclamation mark

Hazard Statement(s) Combustible liquid. Harmful if swallowed. Precautionary Statement(s) None

HMIS Ratings Physical 0



2

1

Page 2 of 7

MATERIAL SAFETY DATA SHEET

Flammability Health

NFPA Codes	
Fire	2
Health	1
Reactivity	0

Potential Health Effects

Eyes	Contact may cause eye irritation.
Ingestion	Harmful if swallowed.
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Composition / Information on Ingredients

Synonyms	Dimethyoxybenzene
Chemical Formula Molecular Weight	C6D2H2(OCH3)2 140.18
CAS No.	91-16-7 (unlabeled)
EC No.	202-045-3

4 FIRST AID MEASURES

First Aid Measures

Eyes	Flush eyes with water as a precaution.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
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	Move out of dangerous area. Consult a physician and show this safety data sheet.

5 FIRE FIGHTING MEASURE

Fire Fighting Measures



Page 3 of 7

MATERIAL SAFETY DATA SHEET

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

Handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the 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.



Page 4 of 7

MATERIAL SAFETY DATA SHEET

- 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	Clear, Liquid
Color	Colourless
pH Melting Point Boiling Point Flashpoint Lower Explosion Limit	No data available 15 °C (59 °F) 206 - 207 °C (403 - 405 °F) 72 °C (162 °F) - closed cup No data available
Upper Explosion Limit	No data available
Solubility in Water Auto Ignition Temperature	No data available No data available

10 STABILITY AND REACTIVITY

Stability and Reactivity

Chemical Stability	Stable if stored under recommended conditions
Conditions to Avoid	Avoid Heat, Flames and Sparks.
Hazardous decomposition products	Formed under fire conditions: Carbon oxides
Materials to avoid	Strong oxidizing agents, Strong acids



Page 5 of 7

MATERIAL SAFETY DATA SHEET

11 TOXICOLOGICA	L INFORMATION
Acute Toxicity LD50 Oral Rat Serious Damage/Eye Irritation	890 mg/kg No data available
Skin Corrosion/Irritation	No data available
Inhalation	No data available
Respiratory or Skin Sensitization	Not available
Germ Cell Mutagenicity	Not available
Carcinogenicity	Not available
IARC	No component of this 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 identifiable 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.
Reproductive Toxicity	Not available
Specific Target Organ T	oxicity
Single Exposure	No data available

Repeated Exposure No data available

Signs and Symptoms of Exposure

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

Other Information

RTECS CZ6475000



Page 6 of 7

MATERIAL SAFETY DATA SHEET

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

Special Shipping	IMDG/IATA: Not dangerous goods
Notes	
UN Number	1993
NA Number	1993
Prop. Ship. Name	Combustable liquid, n.o.s., (Veratrole-4,5-D2)
Hazard Class	CBL
Packing Group	111
Marine Pollutant	No
Poison Inhalation	No
Hazard	

15 REGULATORY INFORMATION

Regulatory Information



birth

MATERIAL SAFETY DATA SHEET

Combustible Liquid, Harmful by ingestion

SARA

	SARA Sara 302	No chemicals in this material are subject to the reporting requirements.
	Component	
	Sara 313 Component	No chemicals in this material are subject to the reporting requirements.
	SARA 311/312 Hazards	
	Fire (Y/N)	Y
	Acute (Y/N)	Υ
	STATE REGULATIONS	
	Massachusetts Right to Know	No
	Pennsylvania Right to Know	Yes
	New Jersey Right to Know	Yes
	California Proposition 65	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
	Canada	
	DSL Status EU	All components are on the Canadian DSL list.
	Hazard	Harmful
Safety Statements Wear suitable protective clothing.		tive clothing.
Risk Statements Harmful if swallowed.		
16 OTHER INFORMATION		
	Information u	This product is not radioactive. The data given for this product are those of the corresponding Inlabeled 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

Approved On 03/16/12 Version Number 2

corresponding unlabeled compound.