



Cambridge Isotope Laboratories, Inc.  
50 Frontage Road  
Andover, MA 01810

Number:  
Issue Date

ULM-7378  
02/16/11

Page 1 of 7

## MATERIAL SAFETY DATA SHEET

---

### 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Description PHENYLBUTAZONE UNLABELED

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

E-mail [cilsales@isotope.com](mailto:cilsales@isotope.com)  
Web Site [www.isotope.com](http://www.isotope.com)

#### Phone Numbers

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

### 2 HAZARDS IDENTIFICATION

#### OSHA Hazards

Target Organ Effect, Toxic by ingestion , Irritant

#### Target Organs

Bone marrow, Gastrointestinal tract, Blood, Thyroid, Liver, Kidney

#### GHS Label Information

Signal Word Danger

#### Hazards Identification

Skull & crossbones

#### Hazard Statement(s)

Toxic if swallowed.  
Harmful in contact with skin or if inhaled.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.

#### Precautionary Statement(s)

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



Cambridge Isotope Laboratories, Inc.  
50 Frontage Road  
Andover, MA 01810

Number:  
Issue Date

ULM-7378  
02/16/11

Page 2 of 7

## MATERIAL SAFETY DATA SHEET

---

Wear protective gloves/protective clothing/eye protection/face protection.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
IF IN EYES: Rinse with water for several minutes. Remove contact lenses.

### HMIS Ratings

Chronic Health	*
Physical	0
Flammability	0
Health	2

### NFPA Codes

Fire	0
Health	2
Reactivity	0

### Potential Health Effects

Eyes	Causes eye irritation.
Ingestion	Toxic if swallowed.
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation.

## 3 COMPOSITION / INFORMATION ON INGREDIENTS

### Composition / Information on Ingredients

Synonyms	4-Butyl-1,2-diphenyl-3,5-pyrazolidinedione
Chemical Formula	C <sub>19</sub> H <sub>20</sub> N <sub>2</sub> O <sub>2</sub>
Molecular Weight	308.37
CAS No.	50-33-9 (unlabeled)
EC No.	200-029-0

## 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.
Inhalation	If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin	Wash off with soap and plenty of water. Consult a physician.



Cambridge Isotope Laboratories, Inc.  
50 Frontage Road  
Andover, MA 01810

Number:  
Issue Date

ULM-7378  
02/16/11

Page 3 of 7

## MATERIAL SAFETY DATA SHEET

---

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 Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Fire Fighting Equipment Wear self contained breathing apparatus for fire fighting if necessary.

### 6 ACCIDENTAL RELEASE MEASURES

#### Accidental Release Measures

Personal Precautions Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

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 Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

### 7 HANDLING AND STORAGE

#### Precautions for Safe Handling

Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### Conditions for Safe Storage

Storage Store at room temperature away from light and moisture.

### 8 EXPOSURE CONTROL / PERSONAL PROTECTION

#### Personal Protection

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



Cambridge Isotope Laboratories, Inc.  
50 Frontage Road  
Andover, MA 01810

Number:  
Issue Date

ULM-7378  
02/16/11

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 Hygienic Practices	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties (Unlabeled Compound)

Form	Solid
pH	No data available
Melting Point	106 - 108 °C (223 - 226 °F) - lit
Boiling Point	No data available
Flashpoint	No data available
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Solubility in Water	No data available
Auto Ignition Temperature	No data available

### 10 STABILITY AND REACTIVITY

Stability and Reactivity

Chemical Stability	Stable if stored under recommended conditions.
Conditions to Avoid	Not available
Hazardous decomposition products	Products formed under fire conditions - Carbon oxides, nitrogen oxides (NOx)
Materials to avoid	Strong oxidizing agents, Strong acids, Strong bases

### 11 TOXICOLOGICAL INFORMATION

Acute Toxicity



Cambridge Isotope Laboratories, Inc.  
50 Frontage Road  
Andover, MA 01810

Number:  
Issue Date

ULM-7378  
02/16/11

Page 5 of 7

## MATERIAL SAFETY DATA SHEET

---

LD50 Oral Rat	245 mg/kg
Serious Damage/Eye Irritation	Eyes - rabbit - Moderate eye irritation
Skin Corrosion/Irritation	No data available
Inhalation	No data available
Respiratory or Skin Sensitization	Not available
Germ Cell Mutagenicity	Not available
IARC ACGIH	3 - Group 3: not classifiable as to its carcinogenicity to humans. 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.
Reproductive Toxicity	Not available
Specific Target Organ Toxicity	
Single Exposure	Inhalation - May cause respiratory irritation.
Repeated Exposure	No data available
Other Information	
RTECS	UQ8225000

### 12 ECOLOGICAL INFORMATION

#### Toxicity

Persistence and Degradability	Not available
Bioaccumulative Potential	Not available
Mobility in Soil	Not available



Cambridge Isotope Laboratories, Inc.  
50 Frontage Road  
Andover, MA 01810

Number:  
Issue Date

ULM-7378  
02/16/11

Page 6 of 7

## MATERIAL SAFETY DATA SHEET

---

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 2811  
Proper Shipping Name Toxic solids, organic, n.o.s. (Phenylbutazone)  
Hazard Class 6.1  
Packing Group III  
Marine Pollutant No  
Poison Inhalation Hazard No

### 15 REGULATORY INFORMATION

#### Regulatory Information

Target Organ Effect, Toxic by ingestion , Irritant

#### SARA

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

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

#### SARA 311/312 Hazards

Acute (Y/N) Y

Chronic (Y/N) Y



Cambridge Isotope Laboratories, Inc.  
50 Frontage Road  
Andover, MA 01810

Number:  
Issue Date

ULM-7378  
02/16/11

Page 7 of 7

## MATERIAL SAFETY DATA SHEET

---

### 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 All components of this product are on the Canadian DSL list.

### EU

Hazard Toxic

### Safety Statements

Avoid exposure - obtain special instructions before use.

Do not breathe dust.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing, gloves and eye/face protection.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### Risk Statements

May cause cancer.

Harmful by inhalation, in contact with skin and if swallowed.

Irritating to eyes, respiratory system and skin.

May cause sensitization by inhalation and skin contact.

## 16 OTHER INFORMATION

Additional MSDS Information 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.

Approved On 02/16/11  
Version Number 1