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**MATERIAL SAFETY DATA SHEET (MSDS)****PIPERINE (FOR BIOCHEMISTRY)****1 - Chemical Product**

Product Name:Piperine

Synonym:(E,E)-1-[5-(1,3-Benzodioxol-5-yl)-1-oxo-2,4-pentadienyl]piperidine; (E,E)-1-Piperoylpiperidine; Piperin; 1-Piperoylpiperidine

Cas no:94-62-2

Product Coad: P0161200025

Molecular Formula: C<sub>17</sub>H<sub>19</sub>NO<sub>3</sub>

Molecular Weight: 285.34

**2 - COMPOSITION, INFORMATION ON INGREDIENTS**

CAS#	Chemical Name	content	EINECS#
94-62-2	Piperidine, 1-[5-(1,3-benzodioxol-5-yl	98	202-348-0

**3 - HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

Harmful if swallowed.

Potential Health Effects

Eye:Dust may cause mechanical irritation.

Skin:May cause skin irritation.

Ingestion:May be harmful if swallowed.

Inhalation:Dust is irritating to the respiratory tract.

Chronic:This substance has caused adverse reproductive and fetal effects in laboratory animals.

**4 - FIRST AID MEASURES**

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

Skin:In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists.

Wash clothing before reuse.

Ingestion:If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Get medical aid.

Inhalation:If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

**5 - FIRE FIGHTING MEASURES**

General Information:As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

Extinguishing Media:Use extinguishing media most appropriate for the surrounding fire.

**6 - ACCIDENTAL RELEASE MEASURES**

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation.

**7 - HANDLING and STORAGE**

Handling:Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid breathing dust.

Storage:Store in a cool, dry place.

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#### 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 94-62-2: Personal Protective Equipment Eyes: Wear appropriate protective

eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Color: cream

Odor: Not available.

pH: Not available.

Vapor Pressure: 1.30E-007 mm Hg @ 25 deg C

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 128 - 130 deg C

Autoignition Temperature: Not available.

Flash Point: Not applicable.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature:

Solubility in water: Insoluble.

Specific Gravity/Density:

Molecular Formula: C<sub>17</sub>H<sub>19</sub>NO<sub>3</sub>

Molecular Weight: 285.34

#### 10 - STABILITY AND REACTIVITY

Chemical Stability: No information found.

Conditions to Avoid: Dust generation.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported

#### 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 94-62-2: TN2321500 LD50/LC50:

CAS# 94-62-2: Oral, mouse: LD50 = 330 mg/kg; Oral, rat: LD50 = 514 mg/kg.

Carcinogenicity:

Piperidine, 1-[5-(1,3-benzodioxol-5-yl)-1-oxo-2,4-pentadieny] - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

#### 12 - ECOLOGICAL INFORMATION

Other No information available.

#### 13 DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

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**MATERIAL SAFETY DATA SHEET (MSDS)****PIPERINE (FOR BIOCHEMISTRY)****14 - TRANSPORT INFORMATION**

IATA  
No information available.  
IMO  
No information available.  
RID/ADR  
No information available.

**15 - REGULATORY INFORMATION**

European/International Regulations  
European Labeling in Accordance with EC Directives  
Hazard Symbols: XN  
Risk Phrases:  
R 22 Harmful if swallowed.  
Safety Phrases:  
S 36/37 Wear suitable protective clothing and gloves.  
WGK (Water Danger/Protection)  
CAS# 94-62-2: No information available.  
Canada  
CAS# 94-62-2 is listed on Canada's DSL List.  
CAS# 94-62-2 is not listed on Canada's Ingredient Disclosure List.  
US FEDERAL  
TSCA  
CAS# 94-62-2 is listed on the TSCA inventory.

**16. Other Information**

**Product Use:** Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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