

MATERIAL SAFETY DATA SHEET: PIPERONAL

The Anthea Group

I. PRODUCT IDENTIFICATION	<p>Product Name: PIPERONAL</p> <p>Usage: Perfumery</p> <p>Chemical Formula: C₈H₆O₃</p> <p>CAS Number: 120-57-0</p> <p>EINECS Number: 204-409-7</p> <p>FEMA Number: 2911</p> <p>IUPAC Name: 1,3-benzodioxole-5-carbaldehyde</p> <p>Synonyms: Heliotropin</p>
II. PHYSICAL & CHEMICAL PROPERTIES	<p>Form: Solid</p> <p>Appearance/Color: White to off-white crystals</p> <p>Odor: Sweet heliotrope – flowery, cherry, powdery, vanilla.</p> <p>Refractive index: 1.614 ± 0.02</p> <p>Relative density: 1.337 ± 0.06 g/cm³</p> <p>Flash Point: >113° (closed cup)</p>
III. HEALTH HAZARD DATA	<p>Routes of exposure: Skin contact, eye contact, ingestion.</p> <p>Effects of overexposure: Maybe irritating to skin, eyes and skin. Maybe harmful if ingested.</p>
IV. FIRE & EXPLOSION HAZARD	<p>Extinguishing media: Carbon dioxide, dry chemical, universal type foam.</p> <p>Special firefighting procedures: Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving essential oils and chemicals.</p> <p>Explosion hazard: None known to Anthea.</p> <p>Unusual fire hazard: Toxic Gases (Carbon dioxide, carbon monoxide and acid fumes) are released on burning. Closed containers will build pressure at elevated temperatures. For such conditions, keep containers cooled with water spray.</p>

<p>V. EMERGENCY & FIRST AID PROCEDURE</p>	<p>Eye contact: Flush immediately with clean water for at least 15 minutes. Contact a physician immediately.</p> <p>Skin contact: Remove contaminated clothing or shoes. Wash affected area with soap and water for 15 minutes. Contact a physician if necessary.</p> <p>Inhalation: Move to area with fresh air. If breathing has stopped provide artificial respiration and oxygen if available. Contact a physician if necessary.</p> <p>Ingestion: Rinse mouth with water and seek medical advice. Do not induce vomiting.</p>
<p>VI. REACTIVITY DATA</p>	<p>Chemical stability: Stable</p> <p>Incompatibility: Avoid contact or contamination with strong acids, alkalis or oxidizing agents.</p>
<p>VII. SPILL OR LEAK CONTROL</p>	<p>Spill or leak management: Eliminate all ignition sources, ventilate area, contain spill and recover free product. Absorb remainder on vermiculite or other suitable absorbent material. Use of self-contained breathing apparatus is recommended for any major spills. Report spills to appropriate authorities if required.</p> <p>Waste disposal: Place material and absorbent into sealed containers and dispose as per regulations.</p> <p>Note: Empty containers can have residues, mists or gases and are subject to proper waste disposal.</p>
<p>VIII. PERSONNEL PROTECTION / EXPOSURE CONTROL</p>	<p>Respiratory protection: None generally required. If required use NIOSH approved respirator.</p> <p>Ventilation protection: Local exhaust meeting ACGIH criteria as needed.</p>

	<p>Protective clothing: Chemical resistant clothing as needed.</p> <p>Protective gloves: Use chemical resistant gloves to avoid prolonged or repeated contact.</p> <p>Eye protection: Use goggles or face shield to avoid eye contact.</p> <p>Other measures: Avoid contact with skin, eyes or inhalation. Good personal hygiene practices should be practised. Wash after contact, before or after meals and at the end of the work period. Contaminated clothes or shoes should be cleaned before reuse.</p>
<p>IX. TOXICOLOGICAL INFORMATION</p>	<p>Oral LD₅₀: Rat → 2700 mg/kg</p> <p>Dermal LD₅₀: Not available</p>
<p>X. REGULATORY CLASSIFICATIONS</p>	<p>OSHA Hazards: Irritant</p> <p>SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.</p> <p>SARA 311/312 Hazards: Acute health hazards</p>
<p>XI. TRANSPORT INFORMATION</p>	<p>Land transport USDOT: Not regulated</p> <p>Maritime transport IMDG: Not regulated</p> <p>Air transport IATA: Not regulated</p>

XII. CONTROLLED SUBSTANCE	EU: Drug precursors Annex I, Category 1. INDIA: Drug precursor, NOC required. UK: MDA Drug precursors Annex I, Category 1. US: CSA Listed Chemicals, Section a, Subsection 18.
XIII. DISCLAIMER	The information contained in this Material Safety Data Sheet has been compiled from data considered to be accurate. However values for certain properties are known to vary from source to source. Crown Chemicals Private Limited disclaims any liability or warranty for any injury or loss arising from the use of this information or the materials described. This data should not be taken to be complete as additional data may be required when particular conditions or circumstances exist. It is the responsibility of the user to determine the best precautionary measures for handling and using the material described. This data relates only to the specific material described and should not be used in combination with other materials. Many central and state regulations govern the end use of the material and the disposal of containers and unused material. It is the purchaser's responsibility to familiarize themselves with these regulations.