

MATERIAL SAFETY DATA SHEET: CHANDANONE
The Anthea Group

I. PRODUCT IDENTIFICATION	<p>Product Name: CHANDANONE</p> <p>Usage: Perfumery</p> <p>Chemical Formula: C₁₅H₂₄O</p> <p>CAS Number: 23787-90-8</p> <p>EINECS Number: 245-890-3</p> <p>IUPAC Name: 2,2,7,7-tetramethyltricyclo [6.2.1.01,6]undecan-5-one</p> <p>Synonyms: Piconia Isolongifolene Ketone</p>
II. PHYSICAL & CHEMICAL PROPERTIES	<p>Form: Liquid</p> <p>Appearance/Color: Pale yellow liquid.</p> <p>Odor: Camphoraceous, woody, earthy, patchouli type odour.</p> <p>Solubility in water: 18.94 mg/L @ 25 °C (est)</p> <p>Specific gravity: 0.997 to 1.005 at 25°C</p> <p>Refractive index: 1.496 to 1.503 at 20°C</p> <p>Flash Point: 120°C</p>
III. HEALTH HAZARD DATA	<p>Routes of exposure: Skin contact, eye contact, ingestion and inhalation.</p> <p>Carcinogenicity: OSHA: No/IARC: No/NTP: No/ACGIH: No</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: Carbon monoxide and unidentified organic compounds may be formed during combustion.</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>Environmental precautions: Keep away from drains, surface and groundwater and soil.</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 → 5000 mg/kg Dermal LD₅₀: Rabbit → 5000 mg/kg Skin Irritation: No irritation (Human, 48 hrs, closed patch test)</p>
<p>X. REGULATORY CLASSIFICATIONS</p>	<p>OSHA Hazards: Mild skin irritant, mild eye irritant</p> <p>SARA 311/312 Hazards: Acute Health Hazard</p> <p>HMIS Classification: Health hazard: 1 Flammability: 1 Physical and chemical hazards: 0</p>
<p>XI. TRANSPORT INFORMATION</p>	<p>Land transport (DOT): Not dangerous goods</p> <p>Maritime transport (IMDG): Not dangerous goods</p> <p>Air transport (IATA): Not dangerous goods</p>

XII. DISCLAIMER	<p>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. Anthea Aromatics 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.</p>
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