

<p>MATERIAL SAFETY DATA SHEET Vion Pharmaceuticals, Inc. Four Science Park New Haven, CT 06511 Phone Number: (203) 498-4210</p>		
<p>Product Name: Triapine®</p>		
<p>Product Identification: Synonyms: 3-Aminopyridine-2-carboxaldehyde thiosemicarbazone, 3-AP Formula CAS No: 143621-35-6 Molecular Weight: 195 Chemical Formula: C₇H₆N₄S Chemical Family: Thiosemicarbazone Hazardous Ingredients: Not applicable Precautionary Measures: Handle as described by NIH guidelines for laboratory use of chemical carcinogens. Wear gloves and protective clothing when handling material. Avoid all unnecessary exposure to the substance. Promptly remove any material on skin, eyes or clothing by rinsing thoroughly with water.</p>		
<p>Vion Pharmaceuticals, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information are responsible for determining its appropriateness for a particular purpose. Vion Pharmaceuticals, Inc. makes no representation, or warranties, either express or implied, of merchantability, fitness for a particular purpose with respect to the information set forth herein or to the product to which the information refers. Accordingly, Vion will not be responsible for damages resulting from use or reliance upon this information.</p>		
<p>SECTION 1: Physical Data</p> <p>Appearance: Yellow powder Odor: Odorless Solubility: Approximately 0.1 mg/ml water, 1.25 mg/ml ethanol, 15 mg/ml of PEG-300 at 22-23°C. Boiling Point: Not applicable Melting Point: 228-236°C Density: Not applicable Vapor Density (Air=1): Not applicable Vapor Pressure (mm Hg): Not determined Evaporation Rate: Not applicable</p>		
<p>SECTION 2: Reactivity Data</p> <p>Stability: Store in amber container in cool and dry condition. Light sensitive. Protect from light. During the manufacturing process cover the compounding vessel with aluminum foil to protect the compound from light. Hazardous Decomposition Products: Unknown Hazardous Polymerization: Will not occur Incompatibilities: Will complex with metals such as iron. Avoid use of metallic spatulas or spoons to handle 3-AP.</p>		

<p>SECTION 3: Spill Disposal Information</p> <p>Spills: Wear gloves and other suitable protective clothing. Pick up spill with absorbent material. A respirator that meets the 29 CFR 1910.134 OSHA Safety and Health Standards might be needed for large spills. Dispose of in a closed container. The spill area then should be cleaned (three times) using a 95% BIOH solution followed by water.</p> <p>Disposal: As described by the NIH guidelines for the laboratory use of Chemical Carcinogens. Public Health Service, National Institute of Health, U.S. Department.</p>	<p>B. First Aid</p> <p>DOT Hazard: Not regulated</p> <p>Inhalation: Consult physician</p> <p>Ingestion: Consult physician</p> <p>Skin Exposure: In case of contact, immediately flush skin with copious amounts of water. Remove contaminated clothing. Consult a physician if any symptoms persist.</p> <p>Eye Exposure: Wash thoroughly with running water. Get medical advice if irritation persists.</p>	<p>SECTION 5: Fire and Explosion Hazard</p> <p>Explosion: Not an explosion hazard.</p> <p>Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.</p> <p>Special Information: None</p>
<p>Health and Human Services</p> <p>SECTION 4: Health Hazard Information</p> <p>A. Exposure & Health Effects</p> <p>Inhalation: Not expected to be a hazard unless large amount is inhaled. See Section C Intravenous (IV) dose in humans.</p> <p>Ingestion: Not expected to be a hazard, unless large amount is ingested. See Section C IV dose in humans.</p> <p>Skin Contact: Not expected to be a hazard if contaminated area is washed thoroughly with soap and water.</p> <p>Eye Contact: No information available</p> <p>Reproductive Effects: No information available</p> <p>Chronic Exposure: No information available</p> <p>Aggravation of Pre-existing Condition: No information available</p>	<p>C. Toxicity Data</p> <p>Acute Toxicity Data</p> <p>Intraperitoneal (IP) Mouse Acute LD₅₀: Approx. 10 mg/Kg</p> <p>IV Rat Acute LD₅₀: Approx. 8.0 mg/Kg</p> <p>IV Maximum Safe Dose In Human: For single dose ≥ 105 mg/m² given IV over 2 hours. For multi-dose schedule, 96 mg/m² given IV over 2 hours daily for 4 days or 120-160 mg/m²/day given by continuous infusion over 96 hours. Dose limiting toxicities include myelosuppression, mostly granulocytopenia and anemia.</p> <p>IP Mouse Acute: Not determined</p> <p>Reproductive Data No information available</p> <p>Mutagenicity Data Not mutagenic when tested <i>In-vitro</i>.</p>	<p>SECTION 6: Occupational Control Measures</p> <p>Airborne Exposure Limit: Not determined. Minimize airborne materials and aerosols, if possible.</p> <p>Ventilation System: Use with adequate ventilation. For sample preparation use a Class II Biological Safety Cabinets (BSC).</p> <p>Eye Protection: Wear safety glasses</p> <p>SECTION 7: Storage & Special Information</p> <p>Store 3-AP bulk substance and drug product in amber containers at refrigeration temperature (2-8°C). Protect from light.</p> <p>Wear gloves and protective clothing when handling material. Avoid all unnecessary exposure to the substance. Promptly remove any material on skin, eyes or clothing by rinsing thoroughly with water.</p>

Prepared December 2, 2002 Revision 2