



Material Safety Data Sheet

| HAZARD WARNIN | IGS | RISI | K PHRASES | | | PROTE | CTIVE CLOTHING | |
|--|--|---|--|-----------------|---------------------------------|---------------------------------------|--|--|
| | | compound, minimize exposure. to skin, eyes, and the respiratory system. ictive effector; may damage fertility or the unborn child. | | | | | | |
| Section I. | Chemical Prod | uct and Cor | mpany Ide | entificat | ion | | | |
| Chemical Name | Zopiclor | Zopiclone | | | | | | |
| Catalog Number | Z0018 | Z0018 | | | Supplier | TCI America 9211 N. Harborgate St. | | |
| Synonym | pyridinyl)-6,7-dil ester (CA INDE 6-(5-Chloro-2-p | 1-Piperazinecarboxylic acid, 4-methyl-,6-(5-chloro-2- pyridinyl)-6,7-dihydro-7-oxo-5H-pyrrolo[3,4-b]pyrazin-5-yl ester (CA INDEX NAME); 6-(5-Chloro-2-pyridyl)-6,7-dihydro-7-oxo-5H-pyrrolo[3,4-b pyrazin-5-yl 4-Methyl -1-piperazinecarboxylate | | | | Portland (1-800-423 | OR | |
| Chemical Formula | $\overline{C_{17}H_{17}ClN_6O_3}$ | C ₁₇ H ₁₇ ClN ₆ O ₃ | | | | | | |
| CAS Number | 43200-80-2 | | | | In case of Emergency Call | (800) 424 (703) 527 | hemtrec® 00) 424-9300 (U.S.) '03) 527-3887 (International) | |
| Section II. | Composition a | nd Informa | tion on In | gredien | ts | | | |
| Chemical | Name | CAS Number | Percent (%) | 1 | TLV/PEL | | Toxicology Data | |
| Zopicl | one | 43200-80-2 | Min. 98.0 (HPLC, T) | Not availabl | Э. | Rat LD ₅ | (intramuscular) 295 mg/kg (intravenous) 280 mg/kg (oral) 827 mg/kg | |
| Section III. | Hazards Identi | ification | | | | | | |
| Irritating to eye eye is characte occasionally, bl | | ful if ingested or inhaled. Minimize exposure to this material. Severe overexposure can result in injury or death. Ing to eyes and skin on contact. Inhalation causes irritation of the lungs and respiratory system. Inflammation of the characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, sionally, blistering. | | | | | | |
| Chronic Health Effects | MUTAGENIC EFF TERATOGENIC E DEVELOPMENTA Rat TDLo (Oral) 13 Toxic Effects: Effects on Newbor Effects on Newbor Rat TDLo (Oral) 70 Toxic Effects: Paternal Effects - 3 Effects on Fertility Rat TDLo (Oral) 33 Toxic Effects: Effects on Fertility Effects on Fertility | n - Growth statistics 00 mg/kg. Male 2 w | ole. ilable. iductive Effects 17-22 days of pr reeks prior to ma weeks prior to m weeks prior to m | ting. ating. | | | nditions. | |
| Section IV. | First Aid Meas | ures | | | | | | |
| Eye Contact | | Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention. | | | | | | |
| Skin Contact | | In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention. | | | | | | |
| Inhalation | | If the victim is not breathing, perform mouth-to-mouth resuscitation. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention if respiration problems do not improve. | | | | | | |
| Ingestion | Loosen tight cloth resuscitation. Exa | INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. | | | | | | |

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| Section V. | Fire and Explosion Data | | | | | | |
| Flammability | May be combustible at high temperature. | Auto-Ignition | Not available. | | | | |
| Flash Points | Not available. | Flammable Limits | Not available. | | | | |
| Combustion Products | These products are toxic carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂), halogenated compounds. WARNING: Highly toxic HCI gas is produced during combustion. | | | | | | |
| Fire Hazards | Not available. | | | | | | |
| Explosion Hazards | Risks of explosion of the product in presence Risks of explosion of the product in presence | | | | | | |
| Fire Fighting Media and Instructions | SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet. Consult with local fire authorities before attempting large scale fire-fighting operations. | | | | | | |
| Section VI. | Accidental Release Measures | 3 | | | | | |
| Spill Cleanup Instructions | Harmful material. Irritating material. Reproductive effecting material. Use a shovel to put the material into a convenient waste disposal container. Consult federal, state, and/or local authorities for assistance on disposal. | | | | | | |
| Section VII. | Handling and Storage | | | | | | |
| Handling and Storage Information | HARMFUL. IRRITANT. REPRODUCTIVE use, tightly seal the container and store in a Always store away from incompatible compo | dry, cool place. Avoid excessive h | at. Mechanical exhaust required. When not i neat and light. Do not breathe dust. | | | | |
| Section VIII. | Exposure Controls/Personal | Protection | | | | | |
| Engineering Controls | | Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants | | | | | |
| Personal Protection | Splash goggles. Lab coat. Dust respirator. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. Be sure to use a MSHA/NIOSH approved respirator or equivalent. | | | | | | |
| Exposure Limits | Not available. | | | | | | |
| Section IX. | Physical and Chemical Prope | rties | | | | | |
| Physical state @ 20°C | Solid. (Crystal, powder. White, slightly | Solubility | Soluble in hot methanol. | | | | |
| Specific Gravity | pale yellow.) Not available. | | | | | | |
| Molecular Weight | 388.81 | Partition Coefficient | Not available. | | | | |
| Boiling Point | Not available. | Vapor Pressure | Not applicable. | | | | |
| Melting Point | 177℃ (350.6°F) | Vapor Density | Not available. | | | | |
| Refractive Index | Not available. | Volatility | Not available. | | | | |
| Critical Temperature | Not available. | Odor | Not available. | | | | |
| Viscosity | Not available. | Taste | Not available. | | | | |
| Section X. | Stability and Reactivity Data | | | | | | |
| Stability | This material is stable if stored under proper | conditions. (See Section VII for in | structions) | | | | |
| Conditions of Instability | Avoid excessive heat and light. | | | | | | |
| Incompatibilities | Reactive with oxidizing agents. | | | | | | |
| Section XI. | Toxicological Information | | | | | | |
| RTECS Number | TL1425000 | | | | | | |
| Routes of Exposure | Eye Contact. Ingestion. Inhalation. | | | | | | |
| Toxicity Data | Rat LD ₅₀ (intramuscular) 295 mg/kg Rat LD ₅₀ (intravenous) 280 mg/kg Rat LD ₅₀ (oral) 827 mg/kg | | | | | | |
| Continued on | Next Page Eme | ergency phone num | ber (800) 424-9300 | | | | |

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| Chronic Toxic Effects | CARCINOGENIC EFFECTS : Not available. MUTAGENIC EFFECTS : Not available. | |
| | TERATOGENIC EFFECTS : Not available. | |
| | DEVELOPMENTAL TOXICITY : Reproductive Effects Rat TDLo (Oral) 1300 mg/kg. Female 17-22 days of pregnancy and 20 days after birth. | |
| | Toxic Effects: | |
| | Effects on Newborn - Stillbirth Effects on Newborn - Growth statistics | |
| | Rat TDLo (Oral) 700 mg/kg. Male 2 weeks prior to mating. | |
| | Toxic Effects: Paternal Effects - Spermatogenesis | |
| | Effects on Fertility - Male fertility index | |
| | Rat TDLo (Oral) 3500 mg/kg. Male 2 weeks prior to mating. Toxic Effects: | |
| | Effects on Fertility - Mating performance | |
| | Effects on Fertility - Pre-implantation mortality Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions. | |
| Acute Toxic Effects | Harmful if ingested or inhaled. Minimize exposure to this material. Severe overexposure can result in injury | / or death. |
| Acute Toxic Effects | Irritating to eyes and skin on contact. Inhalation causes irritation of the lungs and respiratory system. Inflar | nmation of the ey |
| | is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scali occasionally, blistering. | ng, readening, or |
| | Follow safe industrial hygiene practices and always wear proper protective equipment when handling this co | ompound. |
| Section XII. | Ecological Information | |
| Ecotoxicity | Not available. | |
| Environmental Fate | Not available. | |
| Section XIII. | Disposal Considerations | |
| Waste Disposal | Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or | mix material with |
| waste Disposai | combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber sy federal, state and local regulations when disposing of the substance. | |
| Section XIV. | Transport Information | |
| DOT Classification | Not a DOT controlled material (United States). | |
| PIN Number | Not applicable. | |
| Proper Shipping Name | Not applicable. | |
| Packing Group (PG) | Not applicable. | |
| DOT Pictograms | | |
| | | |
| Section XV. | Other Regulatory Information and Pictograms | |
| TSCA Chemical Inventor | This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices | are required by 4 |
| (EPA) | CFR 720.36 (C) for those products not on the inventory list: (i) These products are supplied solely for use in research and development by or under the supervision of the supervision | on of a technicall |
| | qualified individual as defined in 40 CFR 720.0 et sec. | |
| | (ii) The health risks of these products have not been fully determined. Any information that is or become supplied on an MSDS sheet. | es available will b |
| WHMIS Classification | Classification Not available. | |
| (Canada) EINECS Number (EEC) | 256-138-9 | |
| EEC Risk Statements | | |
| | R20/21/22- Harmful by inhalation, in contact with skin and if swallowed. R36/37/38- Irritating to eyes, respiratory system and skin. | |
| Japanese Regulatory Data | a Not available. | |
| Section XVI. | Other Information | |
| | | |
| Version 1.0 Validated on 7/7/2011. | | |

Notice to Reader

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