

ZnPT (Zinc pyrithione)

Company Information

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Product Identification

【Product Name】

2-Pyridinethiol-1-oxide zinc salt

【Synonyms】

2-Mercaptopyridine 1-oxide, zinc salt

Bis(1-hydroxy-2-(1h)-pyridinethionato)zinc

Bis(2-pyridinethiol-1-oxide)zinc

Bis(2-pyridylthio)zinc 1,1'-dioxide

Zinc 1-oxidopyridin-1-ium-2-thiolate

Zinc 2-pyridinethiol-1-oxide

【CAS】

[13463-41-7](#)

【Formula】

C₁₀H₈N₂O₂S₂Zn

【Molecular Weight】

317.68

【EINECS】

236-671-3

【RTECS】

ZH0950000

【RTECS Class】

Reproductive Effector; Primary Irritant

【Beilstein/Gmelin】

NA

Physical and Chemical Properties

【Appearance】

Fine beige granules.

【Melting Point】

262

【Density】

1.782 g/cm³ (25 °C)

【Usage】

Microbiocide.

First Aid Measures

【Ingestion】

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

【Inhalation】

IMMEDIATELY leave the contaminated area; take deep breaths of fresh air. If symptoms (such as wheezing, coughing, shortness of breath, or burning in the mouth, throat, or chest) develop, call a physician and be prepared to transport the victim to a hospital. Provide proper respiratory protection to rescuers entering an unknown atmosphere. Whenever possible, Self-Contained Breathing Apparatus (SCBA) should be used.

【Skin】

IMMEDIATELY flood affected skin with water while removing and isolating all contaminated clothing. Gently wash all affected skin areas thoroughly with soap and water. If s

ymptoms such as redness or irritation develop, IMMEDIATELY call a physician and be prepared to transport the victim to a hospital for treatment.

【Eyes】

First check the victim for contact lenses and remove if present. Flush victim's eyes with water or normal saline solution for 20 to 30 minutes while simultaneously calling a hospital or poison control center. Do not put any ointments, oils, or medication in the victim's eyes without specific instructions from a physician. IMMEDIATELY transport the victim after flushing eyes to a hospital even if no symptoms (such as redness or irritation) develop.

Handling and Storage

【Storage】

Keep in a cool, dry, dark location in a tightly sealed container or cylinder. Keep away from incompatible materials, ignition sources and untrained individuals. Secure and label area. Protect containers/cylinders from physical damage.

【Handling】

All chemicals should be considered hazardous. Avoid direct physical contact. Use appropriate, approved safety equipment. Untrained individuals should not handle this chemical or its container. Handling should occur in a chemical fume hood.

Hazards Identification

【Inhalation】

Skin and eye irritation.

【Skin】

See inhalation.

【Eyes】

See inhalation

【Ingestion】

Nausea, vomiting, and diarrhea are expected, but no serious caustic effects are anticipated. Blood levels are not necessary or useful for either the zinc compounds or detergents. Sodium levels may be necessary following large ingestions, in which vomiting has not occurred.

Exposure Controls/Personal Protection

【Personal Protection】

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Where chemical resistant gloves. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

【Respirators】

Wear a NIOSH-approved half face respirator equipped with an organic vapor/acid gas cartridge (specific for organic vapors, HCl, acid gas and SO₂) with a dust/mist filter.

【Exposure Effects】

hypernatremia may produce irritability, restlessness, and seizures.

【Poison Class】

3

Fire Fighting Measures

【Fire Fighting】

Fires involving this compound should be controlled with a dry chemical, carbon dioxide or Halon extinguisher.

Accidental Release Measures

【Small spills/leaks】

STORAGE PRECAUTIONS: You should store this material in a refrigerator.

Stability and Reactivity

【Incompatibilities】

Incompatible with acids and bases Incompatible with oxidizing agents.

【Stability】

Stable @ 100 C for 120 hr.