# Zinc methyl mercaptobenzimidazole (cas 61617-00-3) MSDS

# Material Safety Data Sheet

Section I. Chemical Product and Company Identification

VANOX ZMTI Trade Name 61617-00-3 CAS#

zinc 2-mercaptotoluimidazole and petroleum process oil Synonym

2H-Benzimidazole-2-thione,1,3-dihydro-4(or 5)-methyl-zinc salt Chemical Name

Not available. Chemical Family

C8H8N2S.1/2Zn Chemical Formula

Material Uses Industrial applications: Elastomer antioxidant.

Section II. Composition and Information on Ingredients Name CAS # % by Weight zinc 2-mercaptotoluimidazole 61617-00-3 96 petroleum process oil, <3.0% DMSO extractable materia 64742-52-5 4

Section III. Hazards Identification Off white to tan powder. May cause allergic skin reaction. May cause eye irritation. Dust suspended in air

#### in

#### **Emergency Overview**

critical proportions and in the presence of an ignition source may present an explosion hazard.

#### Section IV. First Aid Measures

Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Eye Contact

Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly

Skin Contact

careful to clean folds, crevices, creases and groin. If irritation persists, seek medical attention.

Allow the victim to rest in a well-ventilated area. Seek medical attention Inhalation

Do not induce vomiting. Immediately give two glasses of water, a little at a time. Never give anything by Ingestion

mouth to an unconscious person. Call a physician. If vomiting occurs spontaneously, lower head below waist

to prevent fluid from entering the lungs.

Continued on Next Section V. Fire and Explosion Data Non-flammable. Flammability of the Product

Not available. Auto-Ignition Temperature

Not available. Flash Points

Not available. Flammable Limits carbon oxides (CO, CO2) nitrogen oxides (NO, NO2...) sulfur oxides (SO2, SO3...) Products of Combustion

Explosion Hazards in Presence Dust suspended in air in critical proportions and in the presence of an ignition source presents an explosion hazard. of Various Substances SMALL FIRE: Use DRY chemical powder. Fire Fighting Media LARGE FIRE: Use water spray, fog or foam. Do not use water jet. and Instructions Not available. Special Remarks on Fire Hazards Special Remarks on Explosion As with any dry material, pouring or allowing to free-fall or to be conveyed

through chutes or pipes can

Hazards accumulate and generate electrostatic sparks, potentially causing ignition of the material itself, or of any

flammable materials which may come in contact with the material or its container.

Section VI. Accidental Release Measures Use appropriate tools to put the spilled solid in a convenient waste disposal container. Small Spill

Warn personnel to move away. Avoid creating dust. Use appropriate instruments to put the spilled material

Large Spill

in a waste disposal. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and state regulations.

Section VII. Handling and Storage

Keep container tightly closed in a cool, well-ventilated place. Ground all equipment containing material. Keep

Storage

away from sources of ignition.

After handling, always wash hands thoroughly with soap and water. Ground all equipment containing Handling Procedures and

material.

### Equipment

Section VIII. Exposure Controls/Personal Protection Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below Engineering Controls recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Personal Protection Gloves. petroleum process oil, <3.0% DMSO extractable material TLV/PEL TWA: 5 (mg/m3) from OSHA (PEL) [US] TWA: 5 STEL: 10 (mg/m3) from ACGIH (TLV) [US]

Continued on Next Section IX. Physical and Chemical Properties Off-white to tan (with Powdered solid. Appearance pink tint)

Not applicable. Molecular Weight

Not applicable. pH (1% soln/water)

Not available. Boiling/Condensation Point

Not available. Melting/Sublimation Point

1.54 (Water = 1) Specific Gravity

1.54 Mg/m3 @ 25

## Density

Not available. Vapor Pressure

Not available. Vapor Density Volatility Not available. Odor / Odor Threshold None

Evaporation rate Not available.

Not available. Viscosity

Not available. Water/Oil Dist. Coeff. Solubility 3.20 x 10-2 g/l of solution at 20.0??C.

Section X. Stability and Reactivity Data The product is stable. Stability

Not available. Instability Temperature

Not available. Conditions of Instability

Not available. Incompatibility with Various Substances Not available. Corrosivity

Special Remarks on Reactivity Not available.

Section XI. Toxicological Information

Eye contact. Inhalation. Ingestion. Routes of Entry

Acute oral toxicity (LD50): 800 mg/kg [Rat]. Toxicity to Animals Acute dermal toxicity (LD50): >2000 mg/kg [Rat] Acute toxicity of the dust (LC50):> 2.12 mg/l 4 hour(s) [Rat]

Primary skin irritation index (rabbits): 0 Special Remarks on Toxicity to Animals Moderate skin sensitiser in guinea pig.

Acute Effects

Mildly irritating to the eyes. Eye contact

This product is not expected to be a skin irritant. Skin contact

May cause allergic skin reaction. Sensitization

Continued on Next Harmful if swallowed. Ingestion

Dust may cause mechanical irritation. Inhalation

Not available. Remark

CARCINOGENIC EFFECTS Not available.

: Chronic Effects on MUTAGENIC EFFECTS Non-mutagenic - Ames Test : Humans

TERATOGENIC EFFECTS Not available.

DEVELOPMENTAL TOXICITY Not available.

:

:

Not available. Remarks

Section XII. Ecological Information Ecotoxicity in water: 6.6 mg/l [EC50], 72 hours [Algae]. 10 mg/l [EC50], 72 hours [Algae]. 1.4 mg/l [EC50], Ecotoxicity 48 hours [Daphnia]. 5.6 mg/l [LC50], 96 hours [Rainbow trout]. Not available. BOD5 and CO Not available. Products of Biodegradation

Attained 27% degradation after 28 days. Not considered to be readily biodegradable under the conditions of Biodegradability OECD guideline No. 301B.

Not available. Special Remarks on the Products of Biodegradation

Section XIII. Disposal Considerations Waste must be disposed according to applicable regulations. Waste information

Not available. Waste stream

Section XIV. Transport Information Not controlled under TDG (Canada). TDG Road/Rail Not applicable.

Not applicable. Remarks

Not available. Maritime Transportation

Continued on Next Section XV. Other Regulatory Information and Pictograms Federal & Provincial CEPA DSL: VANOX ZMTI Regulations.

WHMIS Class D-2B: Material causing other toxic effects (TOXIC). WHMIS (Canada)

Remark Not applicable.

Other regulatory lists TSCA inventory:

VANOX? ZMTI EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances. Australia: VANOX ZMTI

Japan (MITI): VANOX ZMTI

Korea (TCCL): VANOX ZMTI

National Fire 2 Hazardous Material Health Hazard Flammability 1 Protection Association Information System 1 Fire Hazard 2 0 (U.S.A.) (U.S.A.) Reactivity Health 0 Reactivity

E Personal Protection Specific hazard

WHMIS (Canada) (Pictograms)

Protective Clothing (Pictograms)

Section XVI. Other Information Not available. References

Not available. Other Special Considerations

Validated by Erin A. Bendig on 8/12/2005. Verified by Erin A. Bendig. Printed 8/12/2005. Information Contact (203) 853-1400 Corporate Risk Management Department

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