

MATERIAL SAFETY DATA SHEET

SECTION I - SUBSTANCE IDENTIFICATION

Product Name: ZK6

CAS Number: 12173-10-3 (zeolite) 7722-64-7 (KMnO₄)

Formula: KMnO₄ + Hydrated Zeolite (clinoptilolite) **Trade Name & Synonyms:** ZK6, purple pellet

DOT Shipping Name: Natural Zeolite, Cliniptilolite

SECTION II - HAZARDOUS INGREDIENTS

This material is typically 80% hydrated zeolite with 6 - 8% impregnation of potassium permanganate. There are no established PEL, TWA or TLV values for this material. Caution should be taken for respirable dust. The OSHA PEL for potassium permanganate is 5 mg (Mn)/m³ and an ACGIH TLV of 5 mg (Mn)/m³. This product has no known carcinogenic properties.

SECTION III - PHYSICAL DATA

Description: Purple granules, odorless

Vapor Pressure: N/A

Boiling Point: N/A

Volatile Percent: N/A

Vapor Density: N/A

Stability: Stable

Solubility: Zeolite is not soluble, KmnO₄ is soluble in water

Apparent Density: 0.96 g/cc

Incompatibility: Avoid contact with strong acids and oxidizable matter.

SECTION IV - FIRE & EXPLOSION HAZARDS

Flash Point: N/A

Extinguishing Media: Water, foam, CO₂, or dry chemical

Special Procedures: None

Unusual Fire & Explosion Hazards: None

Decomposition Products: In contact with hydrochloric acid, toxic chlorine gas may evolve

SECTION V - HEALTH DATA

Overexposure Effects: This product is non-toxic through ingestion. It is non-toxic through skin absorption. It may irritate skin on contact. It is non-toxic through inhalation. Due to its physical properties, dust may irritate the respiratory system and produce eye irritation. May stain body tissue.

First Aid: In case of eye contact, flush with water for at least 15 minutes. Contact a doctor immediately. For inhalation, remove the person from the area. If swallowed do not induce vomiting. Dilute by giving water or milk.

SECTION VI - SPILL OR LEAK PROCEDURES

If Spilled or Leaked: Sweep/shovel up and discard or repackage.

Waste Disposal Method: Unused product should be treated with 10% sodium thiosulfate solution to reduce remaining KmnO₄ and deposit the treated product in a permitted landfill. This product must be disposed of in accordance with all local, State and Federal regulations.

SECTION VII - HANDLING & STORAGE

Protective Gloves: Recommended.

Eye Protection: Safety glasses/goggles recommended.

Other Protective Clothing: None required.

Ventilation: Local exhaust to control dust.

Respiratory Protection: A high efficiency particulate filter is recommended for dust.

Work/Hygienic Practices: Wash thoroughly after handling.

SECTION VIII - SPECIAL PRECAUTIONS

Avoid exposure to water and contaminated air during storage. Store in a dry place. ZK6 contains manganese compounds as part of the mixture and is subject to the reporting requirements of Section 313 of Title III Superfund Amendments And Reauthorization Act of 1986 and 40 CFR Part 372.

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