

# Material Safety Data Sheet



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## Section 1: PRODUCT AND COMPANY IDENTIFICATION

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Vi-Jon Incorporated  
8515 Page Avenue  
Saint Louis, MO 63114

**Phone:** 314-427-1000  
**In Case of Spill Emergency Contact:**  
**Chemtrec:** 1-800-424-9300

**Product Name:** Epsom Salt  
**Product Code:** OK3  
**Product Use:** Salt  
**Issue Date:** 05/07/2008  
**Supersedes Date:** None

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## Section 2: HAZARDS IDENTIFICATION

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**EMERGENCY OVERVIEW:** Keep out of reach of children.  
**Appearance/Odor:** Salt

**Potential Health Effects:** See Section 11 for more information.

**Symptoms of Exposure:**

- Inhalation:** May cause irritation of the respiratory tract.
- Ingestion:** May cause nausea, vomiting and diarrhea.
- Eyes:** May cause irritation to the eyes.
- Skin:** May cause minor skin irritation.

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

This product does not contain any components that are considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Potential Environmental Effects:** See Section 12 for more information.

**Note to physician:** IV administration of calcium gluconate will partially reverse the effects of acute magnesium toxicity. Ventricular support with calcium chloride infusion and mannitol forced diuresis has also been successful.

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## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

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There are no components that are considered a health hazard.

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**Section 4: FIRST AID MEASURES**

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**Emergency first aid procedures by route of exposure:**

- Inhalation:** If symptoms are experienced, remove source of contamination or move victim to fresh air. If affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion:** Do not induce vomiting. If the material is swallowed, get medical attention or advice.
- Skin:** If irritation is experienced, wash with soap and water. If irritation persists, get medical attention.
- Eyes:** Immediately flush eyes with water for at least 15 minutes while holding eyelids open. If symptoms persist, get medical attention.

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**Section 5: FIRE FIGHTING MEASURES**

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**Flash Point:** Not Available

**Auto Ignition:** Not Available

**Flammability Classification:** Not Available

**Extinguishing Media:** Use methods appropriate for the surrounding fire. Consider water spray or fog, carbon dioxide, dry chemical powder, or alcohol resistant foam.

**Products of Combustion:** Upon decomposition this product may emit carbon dioxide, carbon monoxide and/or low molecular weight hydrocarbons.

**Fire Fighting Equipment/Instructions:** Wear protective clothing and equipment suitable for the surrounding fire, including helmet, facemask, and self contained breathing apparatus.

**NFPA Rating (estimated):** Health:1 Fire: 0 Reactivity:1  
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

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**Section 6: ACCIDENTAL RELEASE MEASURES**

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**Personal Precautions:** For large spills wear gloves, safety glasses and when levels exceed OSHA PEL use appropriate NIOSH approved respiratory protection. Keep unnecessary personnel away.

**Environmental Precautions:** Prevent discharge to open waters.

**Method for Containment:** Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

**Methods for Clean-Up:** Ventilate area of leak or spill. Wash spill area with water.

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**Section 7: HANDLING AND STORAGE**

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**Handling:** Prevent contact with eyes. Do not swallow.

**Storage:** Keep the container tightly closed and in a cool, well ventilated place.

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**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Engineering Controls:** Normal room ventilation is usually adequate under normal use.

**Personal Protective Equipment (PPE)**

**Eye/Face Protection:** None needed under normal use.

**Skin Protection:** None needed under normal use.

**Respiratory Protection:** None needed under normal use.

**General Hygiene Considerations:** Wash hands after use.

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**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**Appearance/Color:** Transparent crystals, or white powder.

**Odor:** Odorless.

**Physical State:** Salt

**pH:** Not Available

**Vapor Density:** Not Available

**Boiling Point:** Not Available

**Vapor Pressure:** Not Available

**Melting Point:** 1124°C

**Freezing Point:** Not Available

**Flash Point** (see section 5)

**Flammability Properties** (see section 5)

**Solubility (in water):** Soluble

**Density @ 25°C:** 2.65 g/ml @4C

**Evaporation Rate:** Not Available

**Octanol/Water partition coefficient (Kow):** Not Available

**Auto-ignition temperature:** Not Available

**Decomposition temperature:** Not Available

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**Section 10: STABILITY AND REACTIVITY**

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**Stability:** Stable under normal ambient temperatures 70°C (21°C)

**Condition to Avoid:** Avoid excessive heat or sources of ignition.

**Incompatible Materials:** Ethoxy ethyl alcohols, arsenates, phosphates, tartrates, lead, barium, strontium and calcium.

**Hazardous Decomposition:** Oxides of sulfur.

**Hazardous Reactions:** Hazardous polymerization will not occur.

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**Section 11: TOXICOLOGY INFORMATION**

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**ACUTE EFFECTS:**

A: Component Analysis LD50  
Magnesium Sulfate (7487-88-9)  
No Information Available for product.

**CHRONIC EFFECTS:**

**Carcinogenicity:** no information available for product.  
**Neurotoxicity:** No information available for product.  
**Mutagenicity:** No information available for product.  
**Reproductive:** No information available for product.  
**Developmental:** No information available for product.  
**Target Organs:** No information available for product.

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**Section 12: ECOLOGICAL INFORMATION**

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Ecotoxicity: Magnesium Sulfate (7487-88-9)  
72 Hr EC50 Scenedesmus subspicatus: 2700 mg/L  
24 Hr LC50 Lepomis macrochirus: 19000 mg/L (static)  
30 min EC50 Photobacterium phosphoreum: 84000 mg/L  
24 Hr EC50 Daphnia magna: 1700 mg/L

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**Section 13: DISPOSAL CONSIDERATIONS**

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Dispose of in accordance with federal, state, and local regulations.

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**Section 14: TRANSPORTATION INFORMATION**

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This material is not regulated as a hazardous material for transportation.

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**Section 15: REGULATORY INFORMATION**

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No information available for product.

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**Section 16: Other Information**

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