

MATERIAL SAFETY DATA SHEET



In the event of a medical or chemical emergency contact
ChemTel, Inc. North American 1-800-255-3924 or worldwide
Intl. + 01-813-248-0585

Voluntary Purchasing Groups, Inc.
230 FM 87
Bonham, Texas 75418

Hi-Yield® Zinc Sulfate

Effective Date: May 24, 2012

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Hi-Yield® Zinc Sulfate

COMPANY IDENTIFICATION:

Voluntary Purchasing Groups, Inc.
230 FM 87
Bonham, TX. 75418

2. INGREDIENTS:

CHEMICAL COMPONENT	CAS No.	% Typical	TLV (Units)	PEL (Units)
Zinc Sulfate Monohydrate [1]	7733-02-0	100	NE	NE

[1] Note: This is a toxic chemical and is subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and reauthorization Act of 1986 and 40 CFR Part 372.

TLV: Threshold Limit Value recommended by the American Conference of Governmental Industrial Hygienists.

PEL: Permissible Exposure Limit recommended by the Occupational Safety and Health Administration.

NE: Not Established

3. PHYSICAL DATA:

Boiling Point: >932°F
Specific Gravity (H₂O=1): 1.97
Vapor Pressure: Not determined
Percent Volatile by Volume: Not determined
Vapor Density: Not determined
Evaporation Rate: >1
Solubility in Water: Appreciable (90% @ 212°F)
Reactivity in Water: Will not evolve flammable or toxic gases
Appearance and Odor: Colorless crystals

4. FIRE AND EXPLOSION DATA:

Flash Point: Does not apply
Flammable Limits in Air: Lower: Not determined Upper: Not determined
Extinguishing Media: CO₂, dry chemical, halon, eater spray, foam
Auto Ignition Temperature: Not determined
Unusual Fire & Explosion Hazards: None determined
Special Fire Fighting Procedures: Use appropriate

5. HEALTH INFORMATION:

Primary Routes of Exposure and Target Organs: Inhalation, skin or eye contact, ingestion.

Signs and Symptoms of Exposure

- Acute Overexposure:** Inhalation may cause irritation with sore throat and coughing. Magnesium sulfate is a laxative. Ingestion may result in hypomagnesaemia, which may affect the cardiovascular, gastrointestinal and

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nervous systems. Depletion of potassium may occur due to the laxative effect leading to hypokalemia. Symptoms may include catharsis, vomiting, cramps and/or diarrhea. Eye or skin contact may result in irritation.

2. **Chronic Overexposure:** Prolonged or repeated ingestion of large doses may result in severe hypokalemia and renal failure.

Medical Conditions Generally Aggravated by Exposure: Renal disorders. Interactions with medications may occur.

Chemical/Component Listed as Carcinogen or Potential Carcinogen: None.

NTP: No **IARC:** No **OSHA:** No

Other Exposure Limits:

ACGIH TLV for nuisance dusts = 10 mg/m³

OSHA PEL for nuisance dusts = 15mg/m³

Emergency and First Aid Procedures: Ingestion: Induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician. **Eye or Skin**

Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. Flush skin with water.

6. REACTIVITY DATA:

Stability: Stable
Conditions to avoid: Does not apply
Incompatibility (Materials to Avoid): Ethoxyethynyl alcohol
Hazardous Decomposition Products: Thermal decomposition may release toxic oxides of sulfur
Hazardous Polymerization: Will not occur

7. SPILL OR LEAK PROCEDURES:

Steps to be taken in case material is leaked or spilled: Wear protective equipment including rubber boots, rubber gloves, rubber apron, and chemical goggles. Sweep-up and dispose of in a labeled container and seal for later disposal or reuse. Comply with all applicable governmental regulations concerning spill reporting, handling, and disposal.

Waste disposal method: Dispose of in accordance with Federal, State, and local regulations.

8. PERSONAL PROTECTIVE INFORMATION:

Respiratory Protection: NIOSH/MSHA approved respiratory devices to protect against particulate matter.

Ventilation: General or local exhaust to maintain employee exposure below the TLV/PEL.

Protective Gloves: Impervious material to prevent skin contact.

Other Protective Clothing or Equipment: When necessary utilize impervious clothing and other equipment to prevent skin contact with this substance.

9. SPECIAL PRECAUTIONS:

Precautions to be taken in Handling & Storage: Store in a cool, dry place. Keep containers dry at all times. Wash Thoroughly after handling. Do not get in eyes, on skin or clothing.

Other precautions: Containers, even though they have been emptied, will retain product residue. Always obey hazard

10. TRANSPORT INFORMATION:

Not regulated by DOT or IMDG.

11. OTHER INFORMATION:

The information contained within was obtained from authoritative sources and is believed to be accurate for the manner in which the product is intended to be used. Other uses could result in ramifications, which are not included within this document.