SECTION 1: Identification

Product identifier

Product name Hi-Yield® Zinc Sulphate
Product number 21624

Supplier's details

Name Voluntary Purchasing Groups, Inc.
Address 230 FM 87
Bonham, TX 75418
USA
Telephone 855-270-4776

Emergency phone number(s)

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

SECTION 2: Hazard identification

Classification of the substance or mixture
- Eye damage/irritation (chapter 3.3), Cat. 1
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 1
- Acute toxicity, oral (chapter 3.1), Cat. 4

GHS label elements, including precautionary statements

Hazard statement(s)
H318 Causes serious eye damage
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H302 Harmful if swallowed
Precautionary statement(s)

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P273 Avoid release to the environment.
P391 Collect spillage.
P501 Dispose of contents/container to ...
P264 Wash … thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell,
P330 Rinse mouth.

SECTION 3: Composition/information on ingredients

Substances

Hazardous components

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc sulfate monohydrate (CAS no.: 7733-02-0; EC no.: 231-793-3; Index no.: 030-006-00-9)</td>
<td>Not specified</td>
</tr>
</tbody>
</table>

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice Call a poison control center or doctor for treatment advice. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If breathing difficulties occur, seek medical attention immediately.

If inhaled Move person to fresh air. If person is not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a poison control center or doctor for treatment advice.

In case of skin contact Wash skin with soap and plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

In case of eye contact Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

If swallowed Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a poison control center or doctor for treatment advice.

Personal protective equipment for first-aid responders

Respiratory Protection: NIOSH/MSHA approved for protection against toxic dusts containing quartz. Ventilation: General or local exhaust to maintain employee exposure below the TLV/PEL. Protective Gloves: PVC or Neoprene. Eye Protection: Safety glasses or goggles (ANSI Z87.1 1979)

Other Protective Clothing or Equipment: Apron, boots, long sleeved shirt and
full-length pants may be worn when necessary to prevent skin contact. Eye wash and shower facilities should be available.

SECTION 5: Fire-fighting measures

Suitable extinguishing media
Use any means suitable for extinguishing surrounding fire.

Specific hazards arising from the chemical
May release toxic oxides of zinc and sulfur in a fire.

Special protective actions for fire-fighters
Use water carefully as material will react with water to form acidic solution. Water spray may be used to keep fire exposed containers cool. Zinc sulfate can decompose at high temperatures to form toxic oxides, sulfur and zinc oxide.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear chemical resistant gloves, protective clothing and safety glasses.

Methods and materials for containment and cleaning up
Dispose of material according to State, Local and Federal regulations. Contain spills. Keep out of streams and domestic water supplies. Report large spills to Voluntary Purchasing Groups. Absorb small spills in inert materials, such as sand, sawdust, or Zorball.

SECTION 7: Handling and storage

Precautions for safe handling
Do not contaminate water, food, or feed by storage or disposal or cleaning of equipment. Carefully open containers and after partial use close container tightly. Avoid contact with skin, eyes or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities
Keep container closed when not in use. Keep away from food, feed and drinking water. Store in a cool dry area away from heat or open flame.

SECTION 8: Exposure controls/personal protection

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

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection
Safety glasses or goggles (ANSI Z87.1 1979)

Skin protection
PVC or Neoprene gloves

Body protection
Water proof apron, boots, long sleeved shirt and full-length pants may be worn when necessary to prevent skin contact. Eye wash and shower facilities should be available.

**Respiratory protection**
NIOSH/MSHA approved for protection

### SECTION 9: Physical and chemical properties

**Information on basic physical and chemical properties**

- **Appearance/form**: White powder
- **Odor**: None
- **Odor threshold**: None
- **pH**: Not specified
- **Melting point/freezing point**: Not specified
- **Initial boiling point and boiling range**: Not specified
- **Flash point**: Not specified
- **Evaporation rate**: Not specified
- **Flammability (solid, gas)**: Information not provided
- **Upper/lower flammability limits**: Information not provided
- **Vapor pressure**: Not specified
- **Vapor density**: Not specified
- **Relative density**: Not specified
- **Solubility(ies)**: 30% at 70º F
- **Partition coefficient: n-octanol/water**: Not specified
- **Auto-ignition temperature**: Not specified
- **Decomposition temperature**: Not specified
- **Viscosity**: Not specified
- **Explosive properties**: Information not provided
- **Oxidizing properties**: Information not provided

**Other safety information**

- **Specific Gravity**: 3.28

### SECTION 10: Stability and reactivity

**Chemical stability**
- **Stable**

**Possibility of hazardous reactions**
- May release toxic oxides of zinc and sulfur in a fire.

**Incompatible materials**
- Zinc sulfate can decompose at high temperatures to form toxic oxides, sulfur and zinc oxide.

### SECTION 11: Toxicological information

**Information on toxicological effects**

**Acute toxicity**
- Chronic Exposure may cause fatigue, slow tendon reflexes, intestinal inflammation (with bleeding), diarrhea, blood effects, central nervous system depression.
Skin corrosion/irritation
Adverse symptoms may include the following: pain or irritation, redness, blistering may occur.

Serious eye damage/irritation
Adverse symptoms may include the following: pain, watering, redness

SECTION 12: Ecological information

Toxicity
To protect the environment, DO NOT allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the lawn or garden will help to prevent run off to water bodies or drainage systems.

SECTION 13: Disposal considerations

Disposal of the product
If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

SECTION 14: Transport information

DOT (US)
Not Regulated

IMDG
Not Regulated

IATA
Not Regulated

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Massachusetts Right To Know Components
Chemical name: Zinc sulfate
CAS number: 7733-02-0

New Jersey Right To Know Components
Common name: ZINC SULFATE
CAS number: 7733-02-0

Pennsylvania Right To Know Components
Chemical name: Sulfuric acid, zinc salt (1:1)
CAS number: 7733-02-0

HMIS Rating

| Hi-Yield® Zinc Sulphate |
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