

# SAFETY DATA SHEET

## ZINC SULFATE HEPTAHYDRATE

### SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

**BioShop Canada Inc.**  
5480 Mainway  
Burlington, Ontario L7L 6A4  
1-800-234-1179  
Emergency Telephone No.: 1-905-466-3832  
Chemical Name: Zinc sulfate heptahydrate  
Catalog Number: ZNS555, ZNS666

### SECTION 2 HAZARDS IDENTIFICATION

#### GHS Classification:

Acute toxicity, Oral, Category 4  
Serious eye damage, Category 1  
Acute aquatic toxicity, Category 1  
Chronic aquatic toxicity, Category 1

#### Pictogram:



**Signal word:** Danger

#### Hazard statement:

H302 Harmful if swallowed.  
H318 Causes serious eye damage.  
H410 Very toxic to aquatic life with long lasting effects.

#### Precautionary statements:

P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear eye protection/ face protection.  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.  
P391 Collect spillage.  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Target Organs:** respiratory tract, skin

**Eyes:** Causes eye burns.

**Skin:** Causes skin irritation. May cause burns.

**Inhalation:** Causes irritation. May cause burns.

**Ingestion:** May be harmful if swallowed. May cause burns and vomiting.

#### CHRONIC HEALTH HAZARDS:

Corrosive. Harmful If swallowed. Causes severe eye and skin Irritation. May cause burns.

### SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
Zinc sulfate heptahydrate	7446-20-0	100

**Molecular Formula:**  $ZnSO_4 \cdot 7H_2O$

**Molecular Weight:** 287.534

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with water for at least 15 minutes, occasionally lifting the upper and lower eyelids. GET MEDICAL ATTENTION

**Skin:** In case of contact, flush area immediately with soap and water while removing contaminated clothing and shoes. Wash clothing before reuse. Discard contaminated clothing in a manner which limits further exposure. GET MEDICAL ATTENTION.

**Inhalation:** GET MEDICAL ATTENTION IMMEDIATELY. Remove from exposure to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**Ingestion:** If swallowed wash mouth out with water if person is conscious. GET MEDICAL ATTENTION. Do Not induce vomiting.

### SECTION 5 FIRE FIGHTING MEASURES

**Flammable:** No

**Flash Point:** N/A

**Autoignition Temperature:** N/A

**Extinguishing Media:** Use water spray, foam, dry chemical or carbon dioxide.

**Explosion Data:** Not available

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.

**Leak and Spill Procedures:** Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container

### SECTION 7 HANDLING AND STORAGE

**Handling:** Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Minimize dust generation.

**Storage Conditions:** Room temperature.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL

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### PROTECTION

Exposure limits:  
Not available  
Use adequate ventilation. AVOID DUST GENERATION.  
Wear appropriate protective equipment to prevent eye and skin exposure.  
Wear appropriate respirator to prevent lung irritation.  
**Personal Protection:** Lab coat, safety goggles, rubber gloves.  
**Ventilation:** Local exhaust systems. Use fume hood  
**Respiratory protection:** use OSHA/MSHA approved respirator.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Solid  
**Appearance and Odor:** white powder. No odor  
**Melting Point:** 100° C  
**Boiling Point:** N/A  
**Specific Gravity:** 3.54  
**Vapor Density:** N/A  
**Solubility:** water  
**pH:** 4.4-6 (5% soln.)

### SECTION 10 STABILITY AND REACTIVITY:

**Stability:** Stable under normal temperatures and pressure  
**Conditions to avoid:** dust generation  
**Incompatibility:** Strong oxidizing agents and reducing agents  
**Hazardous Decomposition Products:** carbon monoxide, carbon dioxide, zinc oxides.  
**Hazardous Polymerization:** Will not occur

### SECTION 11 TOXICOLOGICAL PROPERTIES

#### Exposure Limits:

LD50: Rat oral: 2g/Kg

#### Serious eye damage/eye irritation:

Eyes, rabbit, severe eye irritation

**Epidemiology:** No data available

**Teratogenicity:** No data available

**Reproductive Effects:** No data available

**Neurotoxicity:** No data available

**Mutagenicity:** No data available

**Carcinogenicity:** Not listed by ACGIH, IARC, NTP, or OSHA

### SECTION 12 ECOLOGICAL INFORMATION

#### Toxicity:

Toxicity to fish:

LC50: 1-10mg/L /96 hours

### SECTION 13 DISPOSAL CONSIDERATION

**Waste Disposal:** Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

### SECTION 14 TRANSPORT INFORMATION

#### TDG (Canada)

UN number: 3077 Class: 9 Packing group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

#### IMDG

UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc sulfate heptahydrate)

Marine pollutant: yes

#### IATA

UN number: 3077 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Zinc sulfate heptahydrate)

### SECTION 15 REGULATORY INFORMATION

**US:** TSCA: listed

**European/International:** N/A

**Canada:** WHMIS: **E**

### SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz (President)

Date Prepared: Dec 29/2021

Phone: (800) 234-1179

The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.

Observe all federal, provincial and state laws concerning health, safety and pollution.