



## Safety Data Sheet

Date of Issue: 17.07.2020

Date of Expiry: 17.07.2025

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Name: ECP Limited  
Address: PO Box 34125, Birkenhead, Auckland 0746  
Telephone: +64 9 480 4386  
Facsimile: +64 9 480 4385  
Emergency phone number: 0800 243 622 (24 hours)

<b>Product</b>	Zinc Sulphate Heptahydrate			<b>Code</b>	55401, 55408, 8880
<b>CAS#</b>	<b>HSNO#</b>	<b>UN #</b>	<b>DG Class/es</b>	<b>Packing group #</b>	
7446-20-0	HSR003701	3077	9	III	

**Recommended use:** Laboratory Investigations

### 2: Hazards identification

#### 2.1 GHS Classification

Acute toxicity, Oral (Category D)  
Serious eye damage (Category A)  
Aquatic toxicity (Acute or Chronic) (Category A)

#### 2.2 GHS Label elements, including precautionary statements

Hazard Pictogram



Signal word

**Danger**

#### Hazard statement(s)

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

#### Precautionary statement(s)

##### **Prevention**

P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.

##### **Response**

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P330 Rinse mouth.  
P391 Collect spillage.

#### **Disposal**

P501 Dispose of contents/container to an approved waste disposal plant.

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### **3: Composition/information on ingredients**

Substance/mixture: substance

#### **3.1 Substances**

Formula : O4SZn · 7H2O  
Molecular weight : 287.56 g/mol  
CAS-No. : 7446-20-0  
EC-No. : 231-793-3  
Index-No. : 030-006-00-9

#### **Hazardous components**

<b>Component</b>	<b>Classification</b>	<b>Concentration</b>
Zinc sulfate heptahydrate	6.1 D; 8.3 A; 9.1 A; H302, H318, H410 M-Factor - Aquatic Acute: 1	<=100%

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### **4: First aid measures**

#### **4.1 Description of first aid measures**

##### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

##### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### **In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

##### **In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

##### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### **4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### **4.3 Indication of any immediate medical attention and special treatment needed**

No data available

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## **5: Firefighting measures**

### **5.1 Extinguishing media**

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **5.2 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

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## **6: Accidental release measures**

### **6.1 Personal precautions, protective equipment, and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### **6.3 Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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## **7: Handling and storage**

### **7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

### **7.2 Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Hygroscopic.

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## **8: Exposure controls/personal protection**

### **8.1 Control parameters**

No exposure limits have been set.

### **8.2 Exposure controls**

#### **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### **Personal protective equipment**

##### **Eye/face protection**

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.

##### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

## Body Protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

## Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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## 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### a) Appearance

Form: crystalline  
Colour: white

#### b) pH

4.0 - 6.0 at 50 g/l at 20 °C

#### c) Melting point/freezing point

Melting point/range:

> 500 °C

#### d) Relative density

1.957 g/cm<sup>3</sup> at 20 °C

#### e) Water solubility

965 g/l at 20 °C

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## 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Sulphur oxides, Borane/boron oxides, Zinc/zinc oxides

Other decomposition products - No data available

In the event of fire: see section 5

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## 11: Toxicological information

### 11.1 Information on toxicological effects

*Acute toxicity*

LD50 Oral - Rat - 2,150 mg/kg  
LD50 Intraperitoneal - Rat - 200 mg/kg

#### **Skin corrosion/irritation**

No data available

#### **Serious eye damage/eye irritation**

Eyes - Rabbit - Risk of serious damage to eyes.

#### **Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### **Potential health effects**

##### **Inhalation**

May be harmful if inhaled. May cause respiratory tract irritation.

##### **Ingestion**

Harmful if swallowed.

##### **Skin**

May be harmful if absorbed through skin. May cause skin irritation.

##### **Eyes**

Causes eye burns.

#### **Signs and Symptoms of Exposure**

Burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting, airway resistance, cardiovascular effects, pulmonary oedema, congestive heart failure.

Zinc oxide dust or fume can irritate the respiratory tract. Prolonged skin contact can produce a severe dermatitis called oxide pox. Exposure to high levels of dust or fume can cause metallic taste, marked thirst, coughing, fatigue, weakness, muscular pain, and nausea followed by fever and chills. Severe overexposure may result in bronchitis or pneumonia with a bluish tint to the skin.

#### **Additional Information**

RTECS: ZH5300000

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## **12: Ecological information**

### **12.1 Toxicity**

Toxicity to fish mortality LC50 - other fish - 1 - 10 mg/l - 96.0 h

### **12.2 Persistence and degradability**

The methods for determining the biological degradability are not applicable to inorganic substances.

### **12.3 Other adverse effects**

Very toxic to aquatic life with long lasting effects.

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## **13: Disposal considerations**

### **13.1 Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product

**14: Transport Information Table**

		<b>ADR/RID – European packaging certification</b>	<b>IMDG International Maritime Dangerous Goods Code</b>	<b>IATA – DGR International Air Travel Association – Dangerous Goods Regulations</b>
<b>14.1</b>	<b>UN Number</b>	3077	3077	3077
<b>14.2</b>	<b>UN Proper Shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	Environmentally hazardous substance, solid, n.o.s.
<b>14.3</b>	<b>Transport Hazard Class</b>	9	9	9
<b>14.4</b>	<b>Packaging group</b>	III	III	III
<b>14.5</b>	<b>Environmental Hazards</b>	Yes	Yes	Yes
<b>14.6</b>	<b>Special precautions for user</b>	None		

**15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

HSNO Group Standard Approval: HSR002596 - Laboratory Chemicals and Reagent Kits Group Standard 2006

Tracking Required: not required

Approved Handler Cert.: not required

**16: Disclaimer**

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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