



**SAFETY DATA SHEET**  
According to 29 CFR 1910.1200

**ZINC SULFATE  
MONOHYDRATE**

Date of issue: January 14, 2019 Revision date: September 01, 2023 Version: 2

**SECTION 1.- IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifier**

Substance name Zinc sulfate monohydrate  
CAS No. 7446-19-7  
Formula  $ZnSO_4 \cdot H_2O$   
Synonyms -

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance/mixture See the product label for complete instructions for use.

**1.3 Details of the supplier of the safety data sheet**

Pima Chemicals & Fertilizers, LLC  
1370 Nogales, Az.  
Tel. 011 52 (662) 182-0559  
rgutierrez@qpima.com

Química Pima, S.A. de C.V.  
Del Cobre 20, Parque Industrial Hermosillo.  
Hermosillo, Sonora, México. C.P. 83297  
Tel. 011 (662) 251-0010 ventas@qpima.com

**1.4 Emergency telephone number**

Emergency number CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

**SECTION 2.- HAZARD IDENTIFICATION**

**2.1. GHS-US classification**

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

**2.2. Label elements**

**GHS-US labelling**

**Hazard pictograms (GHS-US)**



Danger

**Signal word (GHS-US):**

**Hazard statement (GHS-US):**

H302 Harmful if swallowed  
H318 Causes serious eye damage  
H400 Very toxic to aquatic life

**Precautionary statements (GHS-US):**

P264 Wash exposed skin carefully after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses when they are present and can be done easily. Continue with



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the washing.  
P330 Rinse mouth  
P391 Collect spillage  
P501 Dispose of contents/container in accordance with local regulations.

- 2.3. Other hazards Not classified.  
2.4 Unknown acute toxicity (GHS-US) Not applicable.

### SECTION 3.- COMPOSICION / INFORMATION OF INGREDIENTS

3.1 Substance Not applicable.

3.2 Mixture

Name	Product identifier (CAS)	%
Zinc sulfate monohydrate	7446-19-7	>99%

### SECTION 4.- FIRST AID MEASURE

4.1. Description of first air measure

- First-aid measures general** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.
- First-aid measures after eye contact** Rinse with plenty of water for at least 15 minutes and seek medical attention.
- First-aid measures after skin contact** Flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention.
- First-aid measures after inhalation** Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
- First-aid measures after ingestion** Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries** Causes eye irritation. May be harmful if inhaled. Causes respiratory tract irritation. May be harmful if absorbed through skin. Causes skin irritation. May be harmful if swallowed.
- Chronic symptoms** Repeated or prolonged inhalation of dust may cause damage to the respiratory system.

4.3. Indications of any immediate medical attention and special treatment needed: Treat symptomatically.

### SECTION 5.- FIREFIGHTING MEASURES

5.1. Extinguishing media: Product is not flammable. Use appropriate media for adjacent fire. Cool unopened containers with water

5.2. Special hazard arising from the substance or mixture

- Fire hazard** No inflammable
- Explosion hazard** No explosive
- Hazard thermal decomposition products** Emits toxic fumes (sulfur oxides, zinc/zinc oxides) under fire conditions.

5.3. Advice for firefighters

- Protective equipment** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.





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<b>Odor:</b>	Odorless	<b>Color:</b>	Beige
<b>Molecular mass</b>			179.47 g/mol
<b>Odor threshold</b>			No data available.
<b>pH</b>			No data available.
<b>pH solution</b>			No data available.
<b>Relative evaporation rate (butyl acetate=1)</b>			No data available.
<b>Melting point</b>			No data available.
<b>Freezing point</b>			No data available.
<b>Boiling point</b>			No data available.
<b>Flash point</b>			Not flammable
<b>Self ignition temperature</b>			No data available.
<b>Decomposition temperature</b>			No data available.
<b>Flammability (solid, gas)</b>			No data available.
<b>Vapor pressure</b>			No data available.
<b>Relative vapor density at 20°C</b>			No data available.
<b>Relative density</b>			No data available.
<b>Specific gravity</b>			No data available.
<b>Solubility</b>			Soluble in water
<b>Log Pow</b>			No data available.
<b>Log Kow</b>			No data available.
<b>Viscosity, kinematic</b>			No data available.
<b>Viscosity, dynamic</b>			No data available.
<b>Explosive properties</b>			Not explosive
<b>Oxidizing properties</b>			No data available.
<b>Explosive limits</b>			Not explosive
<b>9.2 Other information</b>			No additional information available.

### SECTION 10.- STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>10.2 Chemical stability</b>	Material is stable under normal conditions.
<b>10.3 Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>10.4 Conditions to avoid</b>	Excess heat, generation of dust and wet areas
<b>10.5 Incompatible materials</b>	Strong oxidizing agents
<b>10.6 Hazardous decomposition products</b>	Sulfur oxides, zinc/zinc oxides

### SECTION 11.-TOXICOLOGICAL INFORMATION

#### 11. 1. Information on toxicological effects

Ingestion Irritation, nausea, vomiting, diarrhea.



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Inhalation	Irritation, coughing. Exposure to high levels can cause metallic taste, marked thirst, coughing, fatigue, weakness, muscular pain followed by fever and chills
Skin contact	Irritation.
Eye contact	Irritation, redness, watering eyes.

Name	LD <sub>50</sub> oral	LD <sub>50</sub> dermal	LC <sub>50</sub> inhalation
Zinc sulfate, monohydrate	-	-	-

Skin corrosion/irritation	Irritation
Serious eye damage/irritation	Irritation, redness, watering eyes.
Respiratory or skin sensitization	Irritation, coughing. Exposure to high levels can cause metallic taste, marked thirst, coughing, fatigue, weakness, muscular pain followed by fever and chills.
Germ cell mutagenicity	Not Available
Carcinogenicity	Not Available
Reproductive toxicity	Not Available
Specific target toxicity (single exposure)	Not Available
Specific target toxicity (repeat exposure)	Not Available
Aspiration hazard	Not Available
Potential adverse human health effects and symptoms	Not Available

**SECTION 12. ECOLOGICAL INFORMATION**

- 12.1 Toxicity:** No data available.
- 12.2 Persistence and degradability:** No data available.
- 12.3 Bioaccumulative potential:** No data available.
- 12.4 Mobility in soil:** No data available.
- 12.5 Other adverse effects:** Very toxic to aquatic life with long lasting effects.

**SECTION 13.- DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

Waste disposal recommendations	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste product container.
Ecology-waste materials	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste product container.

**SECTION 14.- TRANSPORT INFORMATION**

<b>14.1. UN number</b>	Not Dangerous Goods
<b>14.2. UN proper shipping name</b>	Not Dangerous Goods
<b>14.3. Additional information</b>	
Other information	Not Dangerous Goods
Overland transport	Not Dangerous Goods
Transport by sea	Not Dangerous Goods



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Air transport

Not Dangerous Goods

### SECTION 15.- REGULATORY INFORMATION

#### US Federal regulations

TSCA 12(b)	All ingredients are listed on the TSCA inventory.
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311/312 Hazard Categories	Acute Health Hazard
CWA (Clean Water Act)	Not listed.
Clean Air Act	Not regulated.
OSHA	Not listed.
CERCLA	Not listed.
California Proposition 65	This product does not contain any Proposition 65 chemicals
U.S. State Right-to-Know Regulations	Not applicable

#### U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

#### U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

#### Other International Regulations

**Mexico - Grade** No information available

### SECTION 16.- OTHER INFORMATION

<b>NFPA</b>	NFPA health hazard	2	NFPA fire hazard	0	NFPA instability hazard	0	NFPA Special hazard	-
<b>HMIS III</b>	Health	2	Flammability	0	Physical	0	Personal Protection	E

**E** Safety glasses, gloves and dust respirator.



**Other information:** None.

**Made for:** Quimica Pima, S.A. de C.V. Del Cobre No. 20 Parque Industrial. Hermosillo, Sonora, México. 83297.

**Date of issue:** January 14, 2019

**Revision date:** September 01, 2023

**Revision note:** Syntax and spelling improvements and corrections were made.

*IMPORTANT NOTE: Information in this SDS is from available published sources and is believed to be accurate, but is not exhaustive and will be used only as a guide, which is based on current knowledge of the chemical substance or mixture and apply to the appropriate product for safety precautions. No warranty, express or implied, is made and Pima Chemicals & Fertilizers, LLC and Quimica Pima, S.A. de C.V. assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.*