

According to 29 CFR 1910.1200

Zinc Sulfate, Monohydrate

Date of issue: January 14, 2019 Revision date: - Version. -

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 Química Pima, S.A. de C.V.

1370 Nogales, Az. Del Cobre 20, Parque Industrial Hermosillo. Tel. 011 52 (662) 182-0559 Hermosillo, Sonora, México. C.P. 83297

rgutierrez@quimicapima.com Tel. 011 (662) 251-0010 ventas@quimicapima.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)

Signal word (GHS-US):

Danger

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 aPOISON 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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Emergency procedures

In the event of fire, cool tanks with water spray. Cool containers exposed to flames with water until well after the fire is out.

SECTION 6.- ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

See section 8 for recommendations on the use of personal protective equipment.

6.2. Environmental precautions

Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.

6.3. Methods and material for containment and cleaning up.

Sweep up and place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

6.4 Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7.- HANDLING AND STORAGE

7.1. Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts.

7.2. Conditions for safe storage, including any incompatibilities

Store in cool, dry well-ventilated area. Hygroscopic. Keep away from incompatible materials (see section 10 for incompatibilities).

7.3 Specific end use(s) No additional information available.

SECTION 8.- EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Contains no substances with occupational exposure limit values.	-	-	-

8.2. Exposure controls

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques

should be used to remove potentially contaminated clothing. Wash contaminated clothing before

reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Hand protection Wear nitrile or rubber gloves, apron or lab coat.

Eye protection Wear chemical safety glasses or goggles.

Respiratory protection Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an

approved respirator.

Appropriate footwear and any additional skin protection measures should be selected based on **Other information**Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before

handling this product.

SECTION 9.- PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state: Solid Appearance: Powder



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Odor: Color: Odorless Beige

No data available.

Molecular mass 179.47 g/mol

Odor threshold No data available. рΗ No data available.

pH solution Relative evaporation rate (butyl acetate=1) No data available.

Melting point No data available. No data available. Freezing point **Boiling point** No data available.

Not flammable Flash point Self ignition temperature No data available.

No data available. **Decomposition temperature** Flammability (solid, gas) No data available. Vapor pressure No data available.

No data available. Relative vapor density at 20°C No data available. Relative density

Specific gravity No data available. Solubility Soluble in water Log Pow No data available.

Log Kow No data available. Viscosity, kinematic No data available. Viscosity, dynamic No data available. **Explosive properties** Not explosive

Oxidizing properties No data available.

Explosive limits Not explosive

9.2 Other information No additional information available.

SECTION 10.- STABILITY AND REACTIVITY

The product is stable and non-reactive under normal conditions of use, storage and transport. 10.1 Reactivity

10.2 Chemical stability Material is stable under normal conditions.

No dangerous reaction known under conditions of normal use. 10.3 Possibility of hazardous reactions

10.4 Conditions to avoid Excess heat, generation of dust and wet areas

10.5 Incompatible materials Strong oxidizing agents

Sulfur oxides, zinc/zinc oxides 10.6 Hazardous decomposition products

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

Irritation.

Skin contact Eve contact

Irritation, redness, watering eyes.

Name	LD ₅₀ oral	LD ₅₀ dermal	LC ₅₀ 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 Not Available Carcinogenicity Not Available Reproductive toxicity Not Available Specific target toxicity (single exposure) Specific target toxicity (repeat exposure) Not Available Not Available Aspiration hazard Potential adverse human health effects and Not Available symptoms

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/nationalor 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 orlocal regulations and consult with appropriate regulatory agencies if necessary before disposing

of waste product container.

SECTION 14.- TRANSPORT INFORMATION

14.1.UN numberNot Dangerous Goods14.2. UN proper shipping nameNot Dangerous Goods

14.3. Additional information

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)

Clean Air Act

OSHA

Not listed.

Not listed.

Not listed.

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. Departament of Transportation

Reportable Quantity (RQ):

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

NFPA NFPA health hazard 2 NFPA fire hazard 0 NFPA instability hazard 0 NFPA Special hazard

HMIS III 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.

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