

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 m	onohydrate				
CAS No.	7446-19-7					
Formula	ZnSO₄∙ H₂O					
Synonyms	-					
1.2 Relevant identified uses of	f the substance or mix	ture and uses advis	ed against			
Use of the substance/mixt	ure See the produ	ict label for complete	instructions for use.			
1.3 Details of the supplier of	he safety data sheet					
Pima Chemicals & Fertilizer 1370 Nogales, Az. Tel. 011 52 (662) 182-0559 rgutierrez@qpima.com	s, LLC	Del Cobre 20, Hermosillo, S	a, S.A. de C.V. Parque Industrial Hermosill conora, México. C.P. 8329 251-0010 ventas@qpima.	7		
1.4 Emergency telephone nur						
Emergency number	CHEMTREC (24HR Emergency Te	elephone), call: 1-800-424-9	300		
SECTION 2 HAZARD IDENTI	FICATION					
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)			E2		
Signal word (GHS-US):			Danger			
Hazard statement (GHS-L	IS): H302 Ha	armful if swallowed				
	H318 C	auses serious eye da	image			
	H400 V	ery toxic to aquatic lif	e			
Precautionary statements	P270 Dc P273 Av P280 W P301+P unwell. P305+P	void release to the e ear protective gloves 2312 IF SWALLOWE 2351+P338 IF IN E	oke when using this product.	ection/face protection ER/doctor/physician if th water for several	minutes.	



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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 Never give anything by mouth to an unconscious person. If you feel unwell, seek medical First-aid measures general advice. First-aid measures after eye contact Rinse with plenty of water for at least 15 minutes and seek medical attention. Flush with plenty of water for at least 15 minutes while removing contaminated clothing First-aid measures after skin contact and wash using soap. Get medical attention. Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not First-aid measures after inhalation breathing, give artificial respiration. Get medical attention. Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If First-aid measures after ingestion conscious, wash out mouth with water. Get medical attention. 4.2. Most important symptoms and effects, both acute and delayed Causes eye irritation. May be harmful if inhaled. Causes respiratory tract irritation. May be harmful if

Symptoms/injuries Causes eye irritation. May be harmful if inhaled. Causes respiratory tract irritat 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

Hygiene measures	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.
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: Odorless	Color: Beige
Molecular mass	179.47 g/mol
Odor threshold	No data available.
рН	No data available.
pH solution	No data available.
Relative evaporation rate (butyl acetate=1)	No data available.
Melting point	No data available.
Freezing point	No data available.
Boiling point	No data available.
Flash point	Not flammable
Self ignition temperature	No data available.
Decomposition temperature	No data available.
Flammability (solid, gas)	No data available.
Vapor pressure	No data available.
Relative vapor density at 20°C	No data available.
Relative density	No data available.
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
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.
Material is stable under normal conditions.
No dangerous reaction known under conditions of normal use.
Excess heat, generation of dust and wet areas
Strong oxidizing agents
Sulfur oxides, zinc/zinc oxides

SECTION 11.-TOXICOLOGICAL INFORMATION

11. 1. Information on toxicological effects



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Inhalation		sure to high levels can cause metall				
Skin contact	fatigue, weakness, muscular pain followed by fever and chills Irritation.					
Eye 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, I	edness, watering eyes.				
Respiratory or skin sensitization		coughing. Exposure to high levels iirst, coughing, fatigue, weakness, n	-			
Germ cell mutagenicity	Not Availa	able				
Carcinogenicity	Not Availa	able				
Reproductive toxicity	Not Availa	able				
Specific target toxicity (single exposure) Not Availa	able				
Specific target toxicity (repeat exposure	e) Not Availa	able				
Aspiration hazard Not Available						
Potential adverse human health symptoms	effects and Not Avail	able				
SECTION 12. ECOLOGICAL INFORM.	ATION					
12.1 Toxicity: No data available.						
12.2 Persistence and degradability:	No data available.					
12.3 Bioaccumulative potential: No of	lata available.					
12.4 Mobility in soil: No data available).					
12.5 Other adverse effects: Very toxic	c to aquatic life with long last	ing effects.				
SECTION 13 DISPOSAL CONSIDER	ATIONS					
13.1. Waste treatment methods						
	of waste product container.					
Waste disposal recommendations	regulations and consu of waste product con	t with appropriate regulatory agenc tainer.	ies, if necessary, before disposing			
Waste disposal recommendations Ecology-waste materials	regulations and consu of waste product con Users should review	t with appropriate regulatory agenc tainer. their operations in terms of the ap t with appropriate regulatory agenc	ies, if necessary, before disposing oplicable federal/national or local			
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Ecology-waste materials	regulations and consu of waste product con Users should review regulations and consu of waste product con	t with appropriate regulatory agenc tainer. their operations in terms of the ap t with appropriate regulatory agenc tainer. s Goods	ies, if necessary, before disposing oplicable federal/national or local			



Air transport

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Not Dangerous (Goods
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SECTION 15 R	SECTION 15 REGULATORY INFORMATION							
US Federal regu	ulations							
TSCA 12(b)			All ingredients	s are li	sted on the TSCA inventory			
SARA 302			Not Listed					
SARA 304			Not Listed					
SARA 311/312 H	Hazard Categories		Acute Health	Hazar	d			
CWA (Clean Wa	ater Act)		Not listed.					
Clean Air Act			Not regulated	l.				
OSHA			Not listed.					
CERCLA			Not listed.					
California Prope	osition 65		This product of	does r	ot contain any Proposition 6	65 che	emicals	
U.S. State Right	t-to-Know Regulatio	ons	Not applicable	е				
U.S. Department	t of Transportation							
Reportable Quan	itity (RQ):		Ν					
DOT Marine Poll	utant		Ν	Ν				
DOT Severe Mar	Ν	Ν						
U.S. Departmen	t of Homeland Secu	irity						
This product does	s not contain any DH	S cher	nicals.					
Other Internatio	nal Regulations							
Mexico - Grade			No informatio	n avai	able			
SECTION 16 C	THER INFORMATIO	ON						
NFPA N	FPA health hazard	2	NFPA fire hazard	0	NFPA instability hazard	0	NFPA Special hazard	-
HMIS III H	lealth	2	Flammability	0	Physical	0	Personal Protection	Е
								1
E Sa	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, 2019Revision date:September 01, 2023Revision note:Syntax and spelling improvements and corrections were made.								
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End of Safety Data Sheet