

According to 29 CFR 1910.1200



Date of issue:	July 15, 2012	Revision date:	September 01, 2023	Version.	4
SECTION 1 IDENTIFICATION O	F THE SUBSTANCE	MIXTURE AND OF THE	COMPANY/UNDERTAKIN	G	
1.1 Product identifier					
Product form	Substance	e			
Substance name	Magnesium	Sulfate Heptahydrate			
CAS No.	10034-99-	-8			
Formula	MgSO ₄ •7	H₂O			
Synonyms	Epsom salt.				
1.2 Relevant identified uses of t	he substance or m	ixture and uses advised	against		
Use of the substance/mixture	e Fertilizers				
1.3 Details of the supplier of the	e safety data sheet				
Pima Chemicals & Fertilizers, 1370 Nogales, Az. Tel. 011 52 (662) 182-0559 rgutierrez@qpima.com www.qpima.com 1.4 Emergency telephone numb		Hermosillo, Son	S.A. de C.V. Parque Industrial Hermosillo. ora, México. C.P. 83297 51-0010 ventas@pima.com		
Emergency number		C (24HR Emergency Tele	phone), call: 1-800-424-930	0	
SECTION 2 HAZARD IDENTIFIC			1 17		
2.1. GHS-US classification					
Specific target organ toxicity (single exposure) 3 F	1335			
Acute toxicity - oral 5 H303					
Full text of H-phrases: see see	ction 16.				
2.2. Label elements					
GHS-US labeling					
Hazard pictograms (GHS-US	5)				
Signal word (GHS-US):	Warn	ing	~		
Hazard statement (GHS-US)	: H303	May be harmful if swallow	ved.		
	H335	May cause respiratory irr	itation.		
Precautionary statements ((P270 P271 P273	Use only outdoors or in a Avoid release to the envir	ke when using this product. well-ventilated area.	on/face protection.	
	P302+	+P352 IF ON SKIN: Wash	with plenty of soap and wat	er.	



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P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present, and easy to do. Continue rinsing. P312 Call a POISON CENTER/doctor if you feel unwell.

P403+P233 Store in a well-ventilated place. Keep the container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.

2.3. Other hazards

Not applicable.

None to our knowledge.

SECTION 3.- COMPOSICION / INFORMATION OF INGREDIENTS

3.1 Substance

Substance type Mono-constituent

Name	Product identifier	%	GHS-US classification
Magnesium Sulfate Heptahydrate	(CAS NO.) 10034-99-8	> 99.00	STOS-SE 3, H335 Acute toxicity - oral 5, H303

3.2 Mixture Not applicable

2.4 Unknown acute toxicity (GHS-US)

SECTION 4.- FIRST AID MEASURE

4.1. Description of first aid 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 immediately with plenty of water. Obtain medical attention if pain, blinking, or redness persists.
First-aid measures after skin contact	Remove affected clothing and wash all exposed skin areas with mild soap and water, followed by a warm water rinse.
First-aid measures after inhalation	Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Get medical attention.
First-aid measures after ingestion	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries Not expected to present a significant hazard under anticipated conditions of normal use.

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

Treat symptomatically. Obtain medical assistance.

SECTION 5.- FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media Do not use a heavy water stream.

5.2. Special hazard arising from the substance or mixture



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Fire hazard	No additional information available.	
Explosion hazard	No additional information available.	
Reactivity	No additional information available.	
5.3. Advice for firefighters		
Precautionary measures fire	Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighborhood close doors and windows.	
Firefighting instructions	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.	
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.	
SECTION 6 ACCIDENTAL RELEASE MEASURES		

ON 6.- ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment, and emergency procedures

6.1.1. For non-emergency personne	9
Protective equipment	Safety glasses. Gloves. Dust mask.
Emergency procedures	Evacuate unnecessary personnel.
Measures in case of dust release	In case of dust production: keep upwind. Dust production: have neighborhood close doors and windows.
6.1.2. For emergency responders	
Protective equipment	Do not attempt to take action without suitable protective equipment. For further information refers to section 8 Exposure controls/personal protection"
Emergency procedures	Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up.

Method for containment	Contain released substance, and pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, and cut off the supply. Knock down/dilute dust cloud with water spray.
Methods for cleaning up	On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.
Other information	Dispose of materials or solid residues at an authorized site.
6.4 Reference to other section	S

See Heading 8. Exposure controls and personal protection.

SECTION 7.- HANDLING AND STORAGE

7.1. Precautions for safe handling

Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. Provide good ventilation in process area to prevent formation Precautions for safe handling of vapor. Do not drink, eat, or smoke in the workplace. Always wash your hands after handling the **Hygiene measures** product. Do not eat, drink, or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities



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Storage conditions	Keep only in the original container in a cool, well-ventilated place away from incompatible materials. Keep container closed when not in use.
Incompatible products	Strong bases.
Heat-ignition	KEEP SUBSTANCE AWAY FROM: Sources of ignition. Direct sunlight.
Storage area	Store in a dry area. Store at room temperature. Keep container in a well-ventilated place.
Special rules on packaging	SPECIAL REQUIREMENTS: closing. Dry. Correctly labeled. Meet the legal requirements. Secure fragile packaging in solid containers.
Packaging materials	No additional information available.
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
Magnesium sulfate, heptahydrate 10034-99-8	Not available	Not available	Not available

8.2. Exposure controls

Appropriate engineering controls	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Personal protective equipment	Dust production: dust mask with filter type P2. Gloves. Safety glasses.
Material for protective clothing	GIVE GOOD RESISTANCE: Rubber.
Hand protection	Gloves.
Eye protection	Chemical goggles or safety glasses.
Skin and body protection	Protective clothing.
Respiratory protection	Dust production: dust mask with filter type P2.
Environmental exposure controls	Avoid release to the environment.

SECTION 9.- PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Solid.	Appearance:	Crystalline solid. Powder. Grains.	
Odor:	No data available.	Color:	Colorless to white.	
Molecular mass		246.48 g/mol		
Odor threshold		No data available		
рН		5 - 8.2		
pH solution		5%		
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		No data available		



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Self-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapor pressure	< 0.1 mmHg
Relative vapor density at 20°C	No data available
Relative density	1.678
Density/specific gravity	No data available
Solubility	Soluble in water. Water: 710 g/l
Log Pow	No data available
Log Kow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Explosive limits	No data available
Other information	

No additional information available.

9.2

SECTION 10.- STABILITY AND REACTIVITY

10.1 Reactivity	No additional information available.
10.2 Chemical stability	Hygroscopic.
10.3 Possibility of hazardous reactions	Not established.
10.4 Conditions to avoid	Direct sunlight. Extremely high or low temperatures.
10.5 Incompatible materials	Strong bases.
10.6 Hazardous decomposition products	Sulfur compounds
10.6 Hazardous decomposition products	Sulfur compounds

SECTION 11.-TOXICOLOGICAL INFORMATION

Respiratory or skin sensitization

11. 1. Information on toxicological ef	ects		
Likely routes of exposure	Not cla	ssified.	
Acute toxicity	Not classified.		
Name	LD ₅₀ oral	LD ₅₀ dermal	LC50 inhalation
Magnesium sulfate	-	-	-
Skin corrosion/irritation	Not cla	ssified.	
Serious eye damage/irritation	Not cla		

Not classified.

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Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
Specific target toxicity (single exposure)
Specific target toxicity (repeat exposure)
Aspiration hazard

Not classified. Not classified. Not classified. Not classified. Not classified. Not classified.

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SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecology - General	No additional information available.
Ecology - Air	No additional information available.
Ecology - Water	No additional information available.

12.2 Persistence, and degradability

Not established.

12.3 Bioaccumulative potential

Not established.

12.4 Mobility in soil

No additional information available.

12.5 Other adverse effects

Other information

Avoid release to the environment.

SECTION 13 DISPOSAL CONSIDERATIONS				
3.1. Waste treatment methods				
Waste treatment methods	Dispose of in accordance with relevant local regulations.			
Waste disposal recommendations	Dispose safely in accordance with local/national regulations.Additional			
information	Avoid release to the environment.			
information Avoid release to the environment.				
ECTION 14 TRANSPORT INFORMATI	ON			
4.1. UN number	Not applicable. In accordance with DOT not regulated for transport.			

	Not applicable. In accordance with DOT not regulated for transport.
14.2. UN proper shipping name	Not applicable.
14.3. Additional information	
Other information	No supplementary information available.
Overland transport	No additional information available.
Transport by sea	No additional information available.
Air transport	No additional information available.



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15.1 US Federal regula								
Magnesium Sulfate, H	eptahydrate (10	034-9	9-8)					
Not listed on the United	,	oxic S	ubstances Control Ac	t) inv	entory			
15.2 International regul	ations							
CANADA								
Magnesium Sulfate, H			•					
Listed on the Canadian	DSL (Domestic S	ubstan	ces List) inventory.					
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria			teria				
EU-Regulation	6							
Magnesium Sulfate, H	eptahydrate (10	034-9	9-8)					
No additional informatio	n available.							
Classification acco	rding to Regula	tion (E	EC) No. 1272/2008 [C	LP]				
No additional inform	ation available.							
Classification acco	rding to Directiv	/e 67/	548/EEC [DSD] or 19	99/4	5/EC [DPD]			
No additional inform	ation available.							
15.2.2. National regulat	ions							
Magnesium Sulfate, H	eptahydrate (10	034-9	9-8)					
No additional informatio	n available.							
15.3 US State regulation	ns							
No additional information	is available.							
SECTION 1 OTHER	INFORMATIC							
	alth hazard		IFPA fire hazard	0	NFPA instability hazard	0	NFPA Special hazard	-
HMIS III Health		1 F	lammability	0	Physical	0	Personal Protection	Е
E Safety gl	asses, gloves, an	d dus	t respirator.			(
Other information:	None.							
Made for:	Quimica Pima,	S.A. d	e C.V. Del Cobre No.	20 F	Parque Industrial. Hermosillo	, Son	ora, México. 83297.	
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Revision notes:	•		3. Updated according t		CFR 1910.1200. ng improvements and correct	tions	were made	

IMPORTANT NOTE: Information in this SDS is from available published sources and is believed to be accurate, but is not exhaus tive and will be used only as a guide, which is based on current knowledge of the chemical substance or mixture and applied 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.

End of Safety Data Sheet