

According to 29 CFR 1910.1200

ALUMINUM SULFATE IRON FREE

Date of issue:	September 01, 2023	Revis	ion date: -	L	Version:	1
SECTION 1 IDENTIFIC	ATION OF THE SUBSTAN	ICE / MIX	(TURE AND OF THE	COMPANY / UNDE	RTAKING	
1.1 Product identifier						
Product form	Solid					
Substance name	Aluminum sulfate iro	n free				
CAS No.	10043-01-3					
Formula	$AI_2(SO_4)_3$					
Synonyms	-					
1.2 Relevant identified	uses of the substance or l	mixture a	and uses advised ag	ainst		
Use of the substand	ce/mixture Fertilizers					
1.3 Details of the suppl	ier of the safety data shee	et				
Química Pima, S.A. o	de C.V.					
Del Cobre 20, Parque	e Industrial Hermosillo					
Hermosillo, Sonora, I	México. C.P. 83297		Tel. 011 (662) 251	-0010 / (662) 251-03	316	
ventas@qpima.com						
www.qpima.com	_					
1.4 Emergency telepho	ne number					
Emergency number	•		CHEMTREC (24H	R Emergency Telep	hone), call: 1-800	-424-9300
SECTION 2 HAZARD I	DENTIFICATION					
2.1 GHS-US classificati	on					
May be corrosive to r	netals	1	H290			
Causes serious eye	damage	1	H318			
Very toxic to aquatic	life.	1	H400			
Toxic to aquatic life v	vith long-lasting effects.	2	H411			
2.2 Label elements						
GHS-US labelling						
Hazard pictograms	(GHS-US)	<		2		
			\vee			
Signal Word (GHS-U	JS):	Dan	ger			
Hazard statement (C	GHS-US):	H29	0 May be corrosive to	metals		
		H31	8 Causes serious eye	e damage.		
		H40	0 Very toxic to aquati	c life.		
		H41	1 Toxic to aquatic life	with long-lasting effe	ects.	
Precautionary state	ments (GHS-US):	P234	4 Keep only in origina	I container.		
		P273	3 Avoid release to the	e environment.		
		P280 prote	0 Wear protective ection	gloves/protective	clothing/eye p	rotection/face



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	P305+P351+P338 IF IN EYES: Rinse minutes. Remove contact lenses if prese P310 Immediately call a POISON CENT P391 Collect spillage.	e cautiously with water for several ent and easy to do – continue rinsing. ER or doctor/physician.		
	P501 Dispose of contents/container	following federal, state, and local		
2.3 Other hazards	The material is not corrosive when dr dissolved in water.	y; it is moderately corrosive when		
2.4 Unknown acute toxicity (GHS-US)	Not applicable			
SECCIÓN 3 COMPOSITION / INFORMATIO	ON OF INGREDIENTS			
3.1 Substance 3.2 Mixture	Not applicable			
Name	Product identifier	%		
Aluminum sulfate	(CAS No.) 10043-01-3	99		
Water	(CAS No.) 7732-18-5	1		
SECCIÓN 4 FIRST AID MEASURE 4.1 Description of first aid measure				
First-aid measures general First-aid measures after eye contact	Check vital signs. Unconscious: keep airways clear and provide breathing assistance. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform CPR. Conscious victim with breathing difficulty: semi-upright position. Victim in shock: lying on back with legs slightly elevated. Vomiting: prevent choking or aspiration. Avoid cooling by covering the victim (without heating). Continue monitoring the victim. Provide psychological support. Keep the victim calm, and avoid physical strain. Depending on the victim's condition: seek medical attention/hospital. Never give anything by mouth to an unconscious person. If feeling unwell, seek medical attention (if possible, show the label).			
	rinsing of the entire eye and eyelid tissues. Rin maximum effectiveness. If wearing contact lenses then continue rinsing your eyes. Consult a physic	using eyes within seconds is essential for s, remove them after the first 5 minutes and cian.		
First-aid measures after skin contact	Thoroughly wash the exposed area for at least 20 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.			
First-aid measures after inhalation	Move the victim to fresh air and provide clean air. Keep them calm. If not breathing, administer artificial respiration. If experiencing difficulty breathing, provide oxygen. Call for medical assistance.			
First-aid measures after ingestion	Do not induce vomiting. Rinse mouth, and give w an unconscious person. Call for medical assistant the victim on their side to reduce the risk of aspira	vater to drink. Never give anything orally to ce. If vomiting occurs spontaneously, place ation.		
4.2 Most important				
Symptoms/injuries after inhalation	Inhalation of vapors irritates the tissues of the nos difficulty breathing, chest tightness and pain, and	e, throat, and lungs, leading to sore throat, coughing.		



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Symptoms/injuries after skin contact Symptoms/injuries after eye contact Symptoms/injuries after ingestión Chronic symptoms

Contact with the skin irritates.

Contact with the eyes can cause irritation.

Ingestion of large amounts can cause gastrointestinal irritation.

No data available

4.3 Indications of any immediate medical attention and special treatment needed

If exposed, concerned, or if symptoms persist, obtain medical attention/advice. If medical advice is necessary, have the product container or label on hand.

SECCIÓN 5.- FIREFIGHTING MEASURES

5.1 Extinguishing media	
Suitable extinguishing media	Use dry chemical powder, foam, sand, or CO2. Use the product according to surrounding
	materials.
Unsuitable extinguishing media	DO NOT USE direct water streams.
5.2 Special hazard arising from the sul	bstance or mixture
Fire hazard	In case of fire, it may release smoke and irritating and/or toxic gases, such as sulfur oxides and other substances derived from incomplete combustion.
Explosion hazard	The product and its packaging, when burning in enclosed spaces for long periods, can produce amounts of carbon monoxide that reach the lower explosive limit
Reactivity	Not available
5.3 Advice for firefighters	
Precautionary measures fire	In case of fire/heating: stand against the wind. If exposed to fire/heat consider evacuation
Firefighting instructions	Spray packaging with water to prevent ignition if they are exposed to excessive heat or fire. Remove the packaging if they have not yet been reached by flames, and you can do so safely. Cool the packaging with water long after the fire has been extinguished, removing any remnants until all embers are eliminated. Prevent water used for firefighting or dilution from entering watercourses, drains, or springs.
Protection during firefighting	Use a self-contained breathing apparatus. Structural firefighter protective clothing provides limited protection in FIRE incidents ONLY; it may not be effective in SPILL situations.

SECCIÓN 6.- ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

6.1.1 For non-emergency personnel	
Protective equipment	Use a self-contained breathing apparatus and dermal and ocular protection. Wear
	impermeable protective gloves.
Emergency procedures	Avoid ignition sources. Evacuate personnel to a ventilated area. Do not allow the spilled
	product to be reused.
Measures in case of dust release	Ventilate immediately, especially in low-lying areas where vapors may accumulate.
6 1 2 For emergency responders	

6.1.2 For emergency responders

Where specialized garments are required to manage the spill/leak, refer to any information in Section 8 regarding suitable and unsuitable materials. Keep the area ventilated.

6.2 Environmental precautions

Avoid release to the environment. Do not allow the product to spread into the environment. Do not discharge into drains or rivers.

6.3 Methods and material for containment and cleaning up



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Method for cleaning up

Contain and collect any contaminated material. Avoid runoff into sewers, waterways, or disposal in areas where surface or groundwater may be affected.

Gather the product with a shovel and place it in a suitable container. Sweep or vacuum, avoiding the dispersion of dust. It may be necessary to moisten it slightly. Clean or wash the contaminated area thoroughly. Dispose of the water and collected residue in containers labeled for disposal as chemical waste.

6.4 Reference to other sections

For further information refer to section 8: Exposure-controls/personal protection

SECTION 7.- HANDLING AND STORAGE

7.1 Precautions for safe handling	
Precautions for safe handling	Avoid contact with skin and eyes. Prevent the formation of dust. Provide adequate ventilation in areas where dust may form. Keep away from ignition sources. Do not smoke. Stay away from heat and ignition sources. Normal measures for fire prevention protection. Avoid the accumulation of static charges.
Hygiene measures	Do not drink, eat, or smoke in the workplace. Always wash your hands after handling the product. Do not eat, drink, or smoke when using this product.
7.2 Conditions for safe storage, including	ng any incompatibilities
Storage conditions	Store only in the original container in a cool, well-ventilated area, away from incompatible materials. Keep the container tightly closed when not in use. Avoid using carbon steel.
Incompatible products	Strong oxidizing agents, acids, and bases.
Heat-ignition	Not available
Storage area	Store this substance in a cool, dry, well-ventilated place and away from incompatible materials. Meet the legal requirements.
Special rules on packaging	SPECIAL REQUIREMENTS: closing. Dry. Correctly labeled. Meet the legal requirements. Secure fragile packaging in solid containers.
Packaging materials	Avoid using carbon steel. Keep in original container.
7.3 Specific end use(s)	

No additional information is available

SECTION 8.- EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Aluminum sulfate 10043-01-3	Not available	Not available	Not available

8.2 Exposure controls

Appropriate engineering controls

The sources of eye wash stations and safety showers should be available near the use/handling area. Provide exhaust ventilation or other engineering controls to maintain vapor concentrations below applicable occupational exposure limits. It is recommended that all vapor control equipment such as local ventilation and material transport systems involved in handling this product contain explosion relief vents an explosion suppression system or an oxygen-deficient atmosphere. Ensure that vapor handling systems are designed to prevent vapor escape into the work area.



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Personal protective equipment	Safety goggles, gloves, coverall, and dust mask.
Material for protective clothing	PVC suits, and neoprene or PVC gloves. Cotton coverall. Plastic safety gloves.
Hand protection	Neoprene or PVC gloves.
Eye protection	Use plastic safety goggles.
Skin and body protection	Cotton coverall, and neoprene or PVC gloves.
Respiratory protection	A dust mask is recommended.
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	Granular solid or powder
Odor	Odorless
Color	White to light brown
Molecular mass	594.14 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/Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Self-ignition temperature	No data available
Decomposition temperature	> 650 °C
Flammability (solid, gas)	Non-flammable
Vapor pressure	No data available
Relative vapor density at 20 °C	No data available
Relative density	0.8 – 1.2 at 20 °C
Bulk density	992 kg/m ³
Solubility	45% in water at 20 °C
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
9.2 Other information	

Corrosive to metals.

SECTION 10.- STABILITY AND REACTIVITY

No reactions or product decompositions are expected under normal storage conditions. Stable under recommended storage conditions.



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10.3 Possibility of hazardous reactions 10.4 Conditions to avoid None under normal conditions of use. Avoid high temperatures. Protect from moisture. Storage with strong alkalis or oxidizing agents should be avoided. Strongly oxidizing agents. Reacts with alkalis and attacks many metals in the presence of

10.5 Incompatible materials

water.

10.6 Hazardous decomposition products

Sulfur oxides, aluminum oxide. The solution in water is a strongly acidic medium.

SECTION 11.- TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effe	cts					
Likely routes of exposure	Skin and	Skin and eyes contact, inhalation, and ingestion.				
Acute toxicity	lt can cau	It can cause irritation.				
Skin corrosión/irritation	It causes	It causes skin irritation.				
Serious eye damage/irritation	It causes	It causes eye irritation.				
Respiratory or skin sensitization	It can irrit	It can irritate the respiratory tract, nausea, and headache.				
Germ cell mutagenicity	Not class	Not classified.				
Carcinogenicity	Not class	Not classified.				
Reproductive toxicity	Not class	fied.				
Specific target toxicity (single expos	sure) It may ca	It may cause respiratory irritation.				
Specific target toxicity (repeat expo	sure) Frequent	Frequent ingestions may lead to phosphorus deficiency, resulting in bone weakening.				
Aspiration hazard Irritates the respiratory tract. Symptoms may include coughing, and difficulty br			hing, and difficulty breathing.			
Name	LD ₅₀ oral LD ₅₀ dermal LC ₅₀ inhalation		LC ₅₀ inhalation			
Aluminum sulfate	> 6207 mg/kg (rat) > 1930 mg/kg (rabbit) 2 – 4 mg/L (rat, 4 h)					

SECTION 12.- ECOLOGICAL INFORMATION

12.1 Toxicity

Ecology – General	Classification concerning the environment: not applicable.
Ecology – Air	Not classified as dangerous for the ozone layer.
Ecology – Water	LC50 (mosquito fish, OECD, 96 h): 235 mg/l
	EC50 (Daphnia magna, OECD, 48 h): 7.72 mg/l
	EC50 (Pseudokirchneriella subcapitata, OECD, 48 h): 25 mg/l
	EC50 (Tetrahymena pyriformis, OECD, 48 h): 0.5 mg/l
	EC50 (zebrafish, OECD, 14 d): 5.2 mg/l
	EC50 (Daphnia magna, OECD, 14 d): 0.55 mg/l

12.2 Persistence and degradability

Not applicable

12.3 Bioacumulative potential

No data available

12.4 Mobility in soil

No data available



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It contains aluminum.

SECCIÓN 13.- INFORMACIÓN RELATIVA A LA ELIMINACIÓN DE LOS PRODUCTOS

13.1 Waste treatment methods

Waste treatment methods Waste disposal recommendations Dispose of following national, state, and local regulations.

Both the surplus product and empty containers must be disposed of following current legislation on Environmental Protection and particularly on Hazardous Waste. You must classify the waste and dispose of it through an authorized company. Disposal procedure: wastewater treatment or disposal in a landfill.

SECTION 14.- TRANSPORT INFORMATION

SECTION 14 TRANSPORT INFORMATION	
14.1 UN Number	3264
14.2 UN proper shipping name	CORROSIVE LIQUID, ACID, INORGANIC, N.E.P.
14.3 Class of hazards in transportation	8
14.4 Packaging group	III
14.3 Additional information	3264 8
Other information	In the United States, it is possible to reclassify this material as non- regulated through surface transportation because its corrosivity is solely due to its effect on metals (steel or aluminum). See 49 CFR.173.154 (d). This product contains one or more ingredients identified as a substance in Appendix A of 49 CFR 172.101. The amount of product, in a package, that triggers the RQ requirements under 49 CFR for each hazardous substance is shown.
Overland transport	No additional information is available.
Transport by sea	No additional information is available.
Air transport	No additional information is available.

SECTION 15.- REGULATORY INFORMATION

International inventories

TSCA All are listed							
TSCA – Toxic Substances Control Act Inventory Section 8(b).							
DSL/NDSL - Domestic Substance List/Non-Domestic Substance List.							
US Federal Regulations: Not listed in the Toxic Substances Control Act Inventory							
SARA 311/312 Categories.							
Acute Health Hazard	Yes	Chronic Health Hazard	No	Fire Hazard	No		
Sudden Hazardous Pressure Release No Reactive Hazard No							
Clean Water Act. None of these chemicals are listed under the Clean Water Act.							

CERCLA. None of the ingredients are listed.

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Official Mexican Standard NOM-002-SCT/2011, List of the most commonly transported hazardous substances and materials.

SECTION 16 OTHER INFORMATION								
NFPA	NFPA health Hazard	1	NFPA fire Hazard	0	NFPA instability Hazard	0	NFPA Special hazard	-
HMIS III	Health	1	Flammability	0	Physical	0	Personal protection	Е
E Safety glasses, gloves, and dust respirator								
Made for: Date of issue Revision date Revision note	Química Pima, S.A. o September 01, 2023 - -	de C.V.	. Del Cobre No. 20 Par	que l	ndustrial. Hermosillo, Sonora, l	Méxic	o. 83297.	

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 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 the suitability of this information for his application.

End of Safety Data Sheet