



SAFETY DATA SHEET
According to 29 CFR 1910.1200

SULFASOL POTASSIUM

Date of issue: July 01, 2012 Revision date: September 01, 2023 Version: 4

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

1.1 Product identifier

Product form	Substance
Substance name	Potassium Sulfate
CAS No.	7778-80-5
Formula	K ₂ PO ₄
Synonyms	Dipotassium sulfate/dipotassium sulphate/potassium sulphate, anhydrous/sulfate of potash.

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

Use of the substance/mixture Fertilizers

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
www.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

Skin irritation 3 H316
Eye damage 2B H320

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)	No pictogram applicable
Signal word (GHS-US):	Warning
Hazard statement (GHS-US):	H316 Causes mild skin irritation. H320 Causes eye irritation.

Precautionary statements (GHS-US):	P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P262 Do not get in the eyes, on skin, or on clothing. P264 Wash hands thoroughly after handling. P281 Use personal protective equipment as required. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. 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.
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P337+P313 If eye irritation persists: Get medical advice/attention.

P402+P404 Store in a dry place. Store in a closed container.

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

2.3. Other hazards

None to our knowledge.

2.4 Unknown acute toxicity (GHS-US)

Not applicable.

SECTION 3.- COMPOSICION / INFORMATION OF INGREDIENTS

3.1 Substance

Substance type Mono-constituent

Name	Product identifier	%	GHS-US classification
Potassium Sulfate	(CAS No.) 7778-80-5	> 90.00	Skin irritation 3, H316 Eye damage 2B, H320

3.2 Mixture

Not applicable

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

Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.

First-aid measures after skin contact

Thoroughly wash the exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.

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

If Potassium Sulfate is swallowed, if conscious, give plenty of water. Immediately call a physician. Never give anything by mouth to an unconscious person.

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

Symptoms/injuries after inhalation

AFTER INHALATION OF DUST: Coughing.

Symptoms/injuries after skin contact

Slight irritation.

Symptoms/injuries after eye contact

ON CONTINUOUS EXPOSURE/CONTACT: Redness of the eye tissue. Irritation of the eye tissue.

Symptoms/injuries after ingestion

AFTER ABSORPTION OF HIGH QUANTITIES: Gastrointestinal complaints. Nausea. Diarrhea. Irritation of the gastric/intestinal mucosa. Decreased renal function. Disturbances of heart rate.

Chronic symptoms

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation. Respiratory difficulties.

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

Treat symptomatically.



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SECTION 5.- FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Adapt extinguishing media to the environment.

Unsuitable extinguishing media No unsuitable extinguishing media is known.

5.2. Special hazard arising from the substance or mixture

Fire hazard DIRECT FIRE HAZARD. No fire hazard. INDIRECT FIRE HAZARD. No fire hazard.

Explosion hazard DIRECT EXPLOSION HAZARD. No direct explosion hazard.

Reactivity On heating/burning on exposure to temperature rise: release of toxic and corrosive gases/vapors (sulfur oxides). In molten state: reacts violently with (some) metals.

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 Dilute toxic gases with water spray.

Protection during firefighting Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6.- ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment, and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. See "Material-Handling" to select protective clothing.

Emergency procedures Mark the danger area. Prevent dust cloud formation, e.g., by wetting. No naked flames. Wash contaminated clothes.

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

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

6.3. Methods and material for containment and cleaning up.

Method for containment Contain released substance and pump into suitable containers. Consult "handling" to select the material of containers. Plug the leak, and cut off the supply. Knockdown/dilute the dust cloud with water spray.

Methods for cleaning up Prevent dust cloud formation. Scoop solid spill into closing containers. See "Material-handling" for suitable container materials. Wash down leftovers with plenty of water. Wash clothing and equipment after handling.

Other information Dispose of materials or solid residues at an authorized site.

6.4 Reference to other sections

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



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SECTION 7.- HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling

Comply with the legal requirements. Avoid raising dust. Keep away from naked flames/heat. Observe normal hygiene standards. Keep the container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

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 any incompatibilities

Storage conditions

Keep only in the original container in a cool, well-ventilated place away from incompatible materials. Keep the container closed when not in use.

Incompatible products

Strong oxidizing agents. Aluminum.

Heat-ignition

KEEP SUBSTANCE AWAY FROM: heat sources.

Storage area

Store in a dry area. Store at room temperature. Keep the container in a well-ventilated place. 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

SUITABLE MATERIAL: Wood. Glass. MATERIAL TO AVOID: aluminum.

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
Potassium sulfate 7778-80-5	Not available	Not available	Not available

8.2. Exposure controls

Appropriate engineering controls

Ensure good ventilation of the workstation. Extraction to remove dust at its source.

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

Safety glasses. In case of dust production: protective goggles.

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:	Odorless.	Color:	Colorless to white.
Molecular mass			174.26 g/mol



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Odor threshold	No data available
pH	2.5 - 5
pH solution	5%
Relative evaporation rate (butyl acetate=1)	No data available
Melting point	1067°C
Freezing point	Not applicable
Boiling point	1689°C
Flash point	Not applicable
Self-ignition temperature	Not applicable
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	2.7
Density/specific gravity	2661 kg/m ³
Solubility	Soluble in water. Water: 11 g/100 ml
Log Pow	Not applicable (inorganic substance)
Log Kow	No data available
Viscosity, kinematic	Not applicable
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidizing properties	Non oxidizing material
Explosive limits	Not applicable

9.2 Other information

No additional information available.

SECTION 10.- STABILITY AND REACTIVITY

10.1	Reactivity	On heating/burning on exposure to temperature rise: release of toxic and corrosive gases/vapors (sulfur oxides). In molten state: reacts violently with some metals.
10.2	Chemical stability	Stable under recommended storage conditions.
10.3	Possibility of hazardous reactions	None under normal conditions of use.
10.4	Conditions to avoid	Heat.
10.5	Incompatible materials	Strong oxidizing agents. Aluminum
10.6	Hazardous decomposition products	On combustion or thermal decomposition (pyrolysis) releases Potassium oxides. Sulphur oxides.



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SECTION 11.-TOXICOLOGICAL INFORMATION

11. 1. Information on toxicological effects

Likely routes of exposure Skin and eye contact; inhalation; and ingestion.
Acute toxicity Not classified

Name	LD ₅₀ oral	LD ₅₀ dermal	LC ₅₀ inhalation
Potassium sulfate	-	-	-

Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified based on available data, the classification criteria are not met.
Carcinogenicity	Not classified
Reproductive toxicity	Not classified based on available data, the classification criteria are not met.
Specific target toxicity (single exposure)	Not classified
Specific target toxicity (repeat exposure)	Not classified based on available data, the classification criteria are not met.
Aspiration hazards	Not classified based on available data, the classification criteria are not met.

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	Mild water pollutant (surface water). Maximum concentration in drinking water: 250 mg/l (sulfate) Slightly harmful to fishes (LC ₅₀ (96h) 100-1000 mg/l). Slightly harmful to invertebrates (<i>Daphnia</i>) (EC ₅₀ (48h): 100 - 1000 mg/l). Not harmful to algae (EC ₅₀ (72h) >1000 mg/l).

12.2 Persistence and degradability

No additional information available.

12.3 Bioaccumulative potential

No additional information available.

12.4 Mobility in soil

No additional information available.

12.5 Other adverse effects

Other information No known ecological damage caused by this product.

SECTION 13.- DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste treatment methods	Dispose of in accordance with relevant local regulations.
Waste disposal recommendations	Remove waste in accordance with local and/or national regulations. Recycle/reuse. Precipitate/make insoluble. Remove to an authorized dump (Class I).
Additional information	Can be considered as non hazardous waste.



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SECTION 14.- TRANSPORT INFORMATION

14.1. UN number	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.

SECTION 15.- REGULATORY INFORMATION

15.1 US Federal regulations

Potassium sulfate (7778-80-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2 International regulations

CANADA

Potassium sulfate (7778-80-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification

Uncontrolled product according to WHMIS classification criteria

EU-Regulations

Potassium sulfate (7778-80-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified.

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified.

15.2.2. National regulations

Potassium sulfate (7778-80-5)

Listed on the AICS (the Australian Inventory of Chemical Substances).
Listed on Inventory of Existing Chemical Substances (IECSC).
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.
Listed on the Korean ECL (Existing Chemical List) inventory.
Listed on INSQ (Mexican national Inventory of Chemical Substances).
Listed on New Zealand - Inventory of Chemicals (NZIoC).
Listed on Inventory of Chemicals and Chemical Substances (PICCS).

15.3 US State regulations

No additional information available.



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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	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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September 01, 23. Version 4. 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 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