



**SAFETY DATA SHEET**  
According to 29 CFR 1910.1200

**CLORASOL POTASSIUM**

Date of issue: July 01, 2009 Revision date: September 01, 2023 Version: 6

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

**1.1 Product identifier**

Product form Substance.  
Substance name Potassium Chloride.  
CAS No. 7447-40-7  
Formula KCl  
Synonyms Muriate 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

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**

Acute toxicity, oral 5 H303  
Skin corrosion/irritation 2 H315  
Serious eye damage/eye irritation 2A H319

**2.2. Label elements**

**GHS-US labelling**

**Hazard pictograms (GHS-US)**



**Signal word (GHS-US):**

Warning

**Hazard statement (GHS-US):**

H303 May be harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

**Precautionary statements (GHS-US):**

P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present, and easy to do. Continue rinsing.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.



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2.3. Other hazards None.  
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 Chloride	(CAS No.) 7447-40-7	> 99.0	Ac tox, oral 5 H303 Skin corr 2 H315 Eye dam. 2A, H319

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** Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Obtain medical attention if pain, blinking, or redness 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** Rinse mouth. If Potassium Chloride is swallowed, if conscious, give plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Obtain emergency medical attention.

**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.

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

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

Obtain medical assistance.



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**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**

**Fire hazard** Not flammable.

**Explosion hazard** Not applicable.

**Reactivity** None.

**5.3. Advice for firefighters**

**Protective equipment** Wear full firefighting and self-contained breathing apparatus (SCBA).

**Emergency procedures** Stay upwind. Under fire conditions this material may produce: oxides of potassium, hydrogen chloride, and chlorine gas. Evacuate unnecessary personnel.

**SECTION 6.- ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment, and emergency procedures**

**6.1.1. For non-emergency personnel**

**Protective equipment** Safety glasses.

**Emergency procedures** Evacuate unnecessary personnel.

**6.1.2. For emergency responders**

**Protective equipment** Do not attempt to take action without suitable protective equipment. For further information refer to section 8 Exposure controls/personal protection"

**Emergency procedures** Do not breathe fumes or vapors from fire decomposition. If possible, stop flow of product. Contain and collect any solid. 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 and collect any solid. Avoid runoff into drains, tributaries of water or surface water, or groundwater.

**Methods for cleaning up** If it is not contaminated, recover and reuse it as product. If it is on the ground, remove and collecting the top 5 centimeters of soil. On land, sweep or shovel into suitable containers. Minimize the generation of dust. Store away from other materials.

**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**

**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 the process area to prevent formation of vapor.



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### 7.2. Conditions for safe storage, including any incompatibilities

<b>Storage conditions</b>	Keep only in the original container in a cool, well-ventilated place away from incompatible materials. Keep the container closed when not in use.
<b>Incompatible products</b>	Silver nitrate. Strong oxidizers. Strong acids.
<b>Incompatible materials</b>	None known.

**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 chloride 7447-40-7	10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>	Not available.

#### 8.2. Exposure controls

<b>Personal protective equipment</b>	Wear appropriate protective clothing to minimize contact with skin.
<b>Hand protection</b>	Wear protective gloves.
<b>Eye protection</b>	Chemical goggles or safety glasses.
<b>Respiratory protection</b>	Wear appropriate mask with filters P2.
<b>Other information</b>	Do not eat, drink, or smoke during

### SECTION 9.- PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

<b>Physical state:</b>	Solid.	<b>Appearance:</b>	Crystalline powder.
<b>Odor:</b>	Odorless.	<b>Color:</b>	White.
<b>Molecular mass</b>			74.55 g/mol
<b>Odor threshold</b>			No data available.
<b>pH</b>			No data available.
<b>pH solution</b>		≈ 7	Sol. 10%
<b>Relative evaporation rate (butyl acetate=1)</b>			No data available.
<b>Melting point</b>			771-773°C
<b>Freezing point</b>			No data available.
<b>Boiling point</b>			1420-1500°C
<b>Flash point</b>			No data available.
<b>Self-ignition temperature</b>			No data available.
<b>Decomposition temperature</b>			No data available.
<b>Flammability (solid, gas)</b>			No data available.
<b>Vapor pressure</b>			No data available.
<b>Relative vapor density at 20°C</b>			No data available.
<b>Relative density</b>			No data available.



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<b>Density</b>	1.987 g/cm <sup>3</sup>
<b>Solubility</b>	Soluble in water. Soluble in glycerol. Soluble in ethanol. Water: 347 g/l. Ethanol: 0.4 g/100 ml. Organic solvent: 7.2 g/100 ml glycerol.
<b>Log Pow</b>	No data available.
<b>Log Kow</b>	No data available.
<b>Viscosity, kinematic</b>	No data available.
<b>Viscosity, dynamic</b>	No data available.
<b>Explosive properties</b>	Not applicable.
<b>Oxidizing properties</b>	None.
<b>Explosive limits</b>	No data available.

**9.2 Other information**

No additional information available.

**SECTION 10.- STABILITY AND REACTIVITY**

<b>10.1 Reactivity</b>	Unreactive under normal conditions of use.
<b>10.2 Chemical stability</b>	Stable under recommended storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	None under normal conditions of use.
<b>10.4 Conditions to avoid</b>	Store away from oxidizing agents, strong acids, or bases. Exposure to moist air or water. Excess of heat Generation of dust.
<b>10.5 Incompatible materials</b>	Strong acids. Silver nitrate. Strong oxidants. In contact with acids releases toxic gases (chlorine). Upon contact with hot nitric acid can produce toxic nitrosyl chloride. Bromine trifluoride.
<b>10.6 Hazardous decomposition products</b>	In contact with strong acids can produce chlorine gas, hydrogen, and potassium oxide.

**SECTION 11.-TOXICOLOGICAL INFORMATION**

**11. 1. Information on toxicological effects**

Acute toxicity Not classified.

Name	LD <sub>50</sub> oral	LD <sub>50</sub> dermal	LC <sub>50</sub> inhalation
Potassium chloride	2600 mg/kg (rat)	-	-

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 hazard	Not classified based on available data, the classification criteria are not met.



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Potential adverse human health effects and symptoms Not classified based on available data, the classification criteria are not met.

**SECTION 12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

**Potassium Chloride (7447-40-7)**

96 hr LC<sub>50</sub> *Lepomis macrochirus*: 1060 mg/L  
96 hr LC<sub>50</sub> *Pimephales promelas*: 750 - 1020 mg/L

**12.2 Persistence and degradability**

**Potassium Chloride (7447-40-7)**

Persistence and degradability It is not easily degradable in the environment, except by dilution.

**12.3 Bioaccumulative potential**

**Potassium Chloride (7447-40-7)**

Bioaccumulative potential Not established.

**12.4 Mobility in soil**

This product can move with surface water or groundwater currents due to its solubility in water.

**12.5 Other adverse effects**

**Other information**

Causes dehydration after ingestion and/or changes in aquatic salinity levels, which can have harmful effects on various aquatic, terrestrial, or avian species.

**SECTION 13.- DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

Waste disposal recommendations Dispose safely in accordance with local/national regulations.  
Ecology-waste materials Avoid release to the environment.

**SECTION 14.- TRANSPORT INFORMATION**

**14.1. UN number** Not applicable.

**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 chloride (7447-40-7)**

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

**15.2 International regulations**

**CANADA**



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<b>Potassium chloride (7447-40-7)</b>	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

**EU-Regulations**

No additional information available.

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

Not classified.

**Classification according to Directive 67/548/EEC or 1999/45/EC**

Not classified.

**15.2.2. National regulations**

<b>Potassium chloride (7447-40-7)</b>
Not listed on the Canadian Ingredient Disclosure List.

**15.3 US State regulations**

No additional information available.

**SECTION 16.- OTHER INFORMATION**

<b>NFPA</b>	NFPA health hazard	1	NFPA fire hazard	0	NFPA instability hazard	0	NFPA Special hazard	-
<b>HMIS III</b>	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.

**Date of issue:** July 01, 2009

**Revision date:** September 01, 2023

**Revision notes:** July 20, 16. Version 4. In this latest revision is updated according to 29 CFR 1910.1200.  
April 10, 18. Version 5. Section 2 Hazard Identification was modified. Section 3 Composition/information on the components was modified. Information was added to Section 8. Information was added to Section 10. Section 12 was modified.  
September 01, 23. Version 6. 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