



SAFETY DATA SHEET
According to 29 CFR 1910.1200

CLORASOL POTASSIUM

Date of issue: July 01, 2009 Revision date: April 10, 2018 Version: 5

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 Alkali salts, 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@quimicapima.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@quimicapima.com
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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 corrosión/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 air 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 fire fighting and self contained breathing apparatus (SCBA).

Emergency procedures Stay upwind. Under fire conditions this material may produce: oxides of potassium, hydrogen chloride, 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 as product. If it is on the ground, removing and collecting the top 5 centimeters of soil. On land, sweep or shovel into suitable containers. Minimize 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 process area to prevent formation of vapor.



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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 container closed when not in use.
Incompatible products	Silver nitrate. Strong oxidizers. Strong acids.
Incompatible materials	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 ³	15 mg/m ³	Not available.

8.2. Exposure controls

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

SECTION 9.- PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Solid.	Appearance:	Crystalline powder.
Odor:	Odorless.	Color:	White.
Molecular mass		74.55 g/mol	
Odor threshold		No data available.	
pH		No data available.	
pH solution		≈ 7	Sol. 10%
Relative evaporation rate (butyl acetate=1)		No data available.	
Melting point		771-773°C	
Freezing point		No data available.	
Boiling point		1420-1500°C	
Flash point		No data available.	
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.	



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Density	1.987 g/cm ³
Solubility	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.
Log Pow	No data available.
Log Kow	No data available.
Viscosity, kinematic	No data available.
Viscosity, dynamic	No data available.
Explosive properties	Not applicable.
Oxidizing properties	None.
Explosive limits	No data available.

9.2 Other information

No additional information available.

SECTION 10.- STABILITY AND REACTIVITY

10.1 Reactivity	Unreactive under normal conditions of use.
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	Store away from oxidizing agents, strong acids or bases. Exposure to moist air or water. Excess of heat Generation of dust.
10.5 Incompatible materials	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.
10.6 Hazardous decomposition products	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 ₅₀ oral	LD ₅₀ dermal	LC ₅₀ 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 LC₅₀ *Lepomis macrochirus*: 1060 mg/L
96 hr LC₅₀ *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 in a safe manner 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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Potassium chloride (7447-40-7)	
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

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

15.3 US State regulations

No additional information available.

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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July 20, 16. Version 4. In this latest revision is updated according to 29 CFR 1910.1200.

Revision note: 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.

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 apply 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