

1. Identification

Product identifier	Potassium Chloride
Other means of identification	Not available
Synonyms	Potash*Muriate of Potash (MOP)*Potassium Muriate*Potassium Monochloride
Recommended use	Fertilizer.
Recommended restrictions	None known.

Manufacturer/Importer/Supplier/Distributor Information

Company name	Gavilon Fertilizer, LLC	
Address	5 Skidaway Village Walk Savannah, GA 31411 US	
Telephone	1-912-598-8392	
Website	www.gavilon.com	
Contact person	EH&S/Regulatory Department	
Emergency phone number	CHEMTREC (24 hours):	1-800-424-3900

2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
OSHA defined hazards	Not classified.

Label elements

Hazard symbol	None.
Signal word	None.
Hazard statement	The substance does not meet the criteria for classification.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible material.
Disposal	Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC)	Not classified.
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Supplemental information	Not applicable.
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3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Potassium chloride	7447-40-7	95 – 99.5
Sodium chloride	7647-14-5	0.3 – 3.7

Composition comments	All concentrations are in weight unless ingredient is a gas. Gas concentrations are in percent by volume. This Safety Data Sheet is not a guarantee of product specification or NPK value(s). NPK content is on specified sales orders, customer invoices, or product specification sheets obtained from supplier.
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4. First-aid measures

Eye contact	Check for and remove contact lenses. Do not rub eyes. Flush immediately with copious amounts of water or normal saline (minimum of 15 minutes), holding eyelids apart to ensure complete irrigation of the eye and eyelid tissue. Take exposed individual to a health care professional, preferably an ophthalmologist, for further evaluation.
Skin contact	Remove contaminated clothing, shoes and equipment. Wash exposed area with plenty of soap and water. Repeat washing. If redness or irritation occurs, seek medical attention. Wash contaminated clothing before reuse.
Inhalation	No adverse effects anticipated. If necessary, move victim to fresh air and loosen clothing. Get medical attention.
Ingestion	If ingestion of a large amount occurs, call a poison control center immediately. Do not give anything by mouth to an unconscious person. Get medical attention if any discomfort occurs.
Most important symptoms/effects, acute and delayed	Symptoms can include irritation, redness, itching and pain.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	The product is not flammable.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires. Selection of respiratory protection for firefighting follow the general fire precautions indicated in the workplace.
Fire-fighting equipment/instructions	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from the fire area if you can do so without risk.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Avoid inhalation of dust and contact with skin and eyes. Ensure adequate ventilation. Wear suitable protective clothing. For personal protection see Section 8 of the SDS.
Methods and materials for containment and cleaning up	<p>Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. After removal flush contaminated area thoroughly with water.</p> <p>Never return spills to original containers for re-use.</p>

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter drains, sewers or watercourses.

7. Handling and storage

Precautions for safe handling

Avoid generation and spreading of dust. Avoid inhalation of dust and contact with skin and eyes. Use only with adequate ventilation. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool, dry well-ventilated place. Store away from incompatible materials.

8. Exposure controls/personal protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

Follow standard monitoring procedures.

Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors and mists.

Individual protection measures such as personal protective equipment

Eye/face protection

Wear approved safety glasses or goggles.

Skin Protection

Hand protection

Risk of contact: Wear protective gloves. Suitable gloves can be recommended by the glove supplier.

Other

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear air supplied respiratory protection if exposure concentrations are unknown. In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment. In the United States of America, if respirators are used, a program should be instituted to assure Compliance with OSHA 29 CFR 1910.134 and ANSI Z88.2.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene consideration

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance

Crystalline or granular.

Physical State

Solid.

Form

Solid.

Color

White to reddish-brown.

Odor

None.

Odor threshold

Not available.

pH

5.4 – 10 (5% solution)

Melting point/freezing point

Not available.

Initial boiling point and boiling range

Not available.

Flash point	Not flammable.
Evaporation Rate	Not available.
Flammability (solid, gas)	Not available.
Vapor pressure	Not available.
Vapor Density (Air=1)	2.57 (Air=1).
Relative density	Not available.
Solubility	99.5 – 100%
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Viscosity	Not available.
Other information	
Bulk Density	64 – 75 lb/ft ³
Molecular weight	132.06 g/mol

10. Stability and reactivity

Reactivity	This product is stable and non-reactive under normal conditions of storage and transport.
Chemical stability	Stable under normal temperature conditions. The substance is hygroscopic and will absorb water by contact with the moisture in the air.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong acid. Oxidizers, nitric acid and sulfuric acid.
Hazardous decomposition products	None known.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Ingestion may cause irritation and malaise.
Inhalation	Dust may irritate throat and respiratory system.
Skin contact	Dust may irritate skin.
Eye contact	Dust may cause eye irritation on direct contact.

Symptoms related to the physical, chemical and toxicological characteristics Symptoms can include itching, redness, burning and tearing of eyes.

Information on toxicological effects

Acute toxicity May cause discomfort if swallowed.

Components	Species	Test Results
Potassium chloride (CAS 7447-40-7) Acute <i>Oral</i> LD50	Rat	2600 mg/kg
Sodium chloride (CAS 7647-14-5) Acute <i>Oral</i> LD50	Rat	3000 mg/kg

Skin corrosion/irritation May cause irritation through mechanical abrasion.

Serious eye damage/eye irritation May cause eye irritation on direct contact.

Respiratory sensitization	Based on available data, the classification criteria are not met.
Skin sensitization	Not a skin sensitizer.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity-single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Chronic effects	Prolonged exposure may cause chronic effects.
Further information	No other specific acute or chronic health impact noted.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
Potassium chloride (CAS 7447-40-7)		
Aquatic		
Crustacea EC50	Water flea (<i>Daphnia magna</i>)	149 mg/L, 48 hours
Fish LC50	Western mosquitofish (<i>Gambusia affinis</i>)	435 mg/L, 96 hours
Sodium chloride (CAS 7647-14-5)		
Aquatic		
Crustacea EC50	Water flea (<i>Daphnia magna</i>)	340.7 – 469.2 mg/L, 48 hours
Fish LC50	Bluegill (<i>Lepomis macrochirus</i>)	1294.6 mg/L, 96 hours

Persistence and degradability	No data available for this product.
Bioaccumulative potential	Not expected to bioconcentrate or bioaccumulate.
Mobility in soil	This product is water soluble and may disperse in soil.
Other adverse effects	No data available.

13. Disposal considerations

Disposal instructions	Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT Not regulated as a hazardous material by DOT.

IATA Not regulated as a dangerous goods.

IMDG Not regulated as a dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

15. Regulatory information

US federal regulations This product is not known to be a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
 Delayed Hazard - No
 Fire Hazard - No
 Pressure Hazard - No
 Reactivity Hazard – No

SARA 302 Extremely hazardous substance No

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)
 Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

Food and Drug Administration (FDA) Not regulated.

US state regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US Massachusetts RTK – Substance List
 Not regulated.

US New Jersey Worker and Community Right-to-Know Act
 Not regulated.

US Pennsylvania RTK – Hazardous Substances
 Not regulated.

US Rhode Island RTK
 Not regulated.

US California Proposition 65
 US – California Proposition 65 – Carcinogens & Reproductive Toxicity (CRT): Listed substances

Not listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act Inventory	Yes

*A “Yes” indicates this product complies with the inventory requirements administered by the governing country(s).
 A “No” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 07-February-2014

Revision date --

Version # SDS

NFPA Ratings



List of abbreviations EC50: Effective concentration, 50%.
 LD50: Lethal Dose, 50%.

References EPA: Acquire database
 HSDB® – Hazardous Substances Data Bank
 IARC Monographs. Overall Evaluation of Carcinogenicity
 National Toxicology Program (NTP) Report on Carcinogens
 ACGIH Documentation of the Threshold Limit Value and Biological Exposure Indices

Preparation The preparation of this MSDS was in accordance with ANSI Z400.1-2010.

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