



Canadian Agri Products(USA) Corp.

Chemicals to Trade, Experience to Remember

Material Safety Data Sheet (MSDS)

MAPLE POTASH

1. Identification of the substance	Common name: Potash Formula: KCl Synonym: Muriate of Potash Product Use: Fertilizer																																										
2. Composition /information on ingredients	<table border="1"><thead><tr><th rowspan="2">Chemical Name(s)</th><th rowspan="2">CAS No.</th><th colspan="2">OSHA PEL</th><th colspan="2">TLV - TWA</th><th colspan="2">STEL</th><th colspan="2">CEIL</th><th>% by</th></tr><tr><th>mg/m³</th><th>ppm</th><th>mg/m³</th><th>ppm</th><th>mg/m³</th><th>ppm</th><th>mg/m³</th><th>ppm</th><th>Weight</th></tr></thead><tbody><tr><td>Potassium Chloride</td><td>7447-40-7</td><td>15 / 5*</td><td></td><td>10**</td><td></td><td></td><td></td><td></td><td></td><td>95-99.8</td></tr><tr><td>Sodium Chloride</td><td>7647-14-5</td><td>15 / 5*</td><td></td><td>10**</td><td></td><td></td><td></td><td></td><td></td><td>0.1-4</td></tr></tbody></table> <p>May contain up to 0.25% base lubrication oil and/or 0.03% neutralized primary aliphatic amines. **Total Dust / Respirable dust *Based on ACGIH nuisance dust limits.</p>	Chemical Name(s)	CAS No.	OSHA PEL		TLV - TWA		STEL		CEIL		% by	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	Weight	Potassium Chloride	7447-40-7	15 / 5*		10**						95-99.8	Sodium Chloride	7647-14-5	15 / 5*		10**						0.1-4
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3. Hazards identification	Potential Acute Health Effects: May cause irritation. Eyes and Skin: Mild irritation, especially in open wounds. Inhalation: Exposure to high dust concentrations may cause irritation of mucous membranes. Ingestion: None Established Potential Chronic Health Effects: Carcinogenicity List: No IARC Monograph: No NTP: No OSHA: No																																										
4. First aid measures	Eyes: Flush with water, including under upper & lower lids, for at least																																										



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	<p>Skin</p> <p>Ingestion</p> <p>Inhalation</p>	<p>15 minutes. Get medical attention if pain and Irritation persists.</p> <p>Wash thoroughly with water. Obtain advise if rash develops.</p> <p>Administer water if patient is conscious. Ingesting potash will usually cause purging of the stomach by vomiting.</p> <p>Get Medical attention</p> <p>Remove to fresh air. If discomfort persists, get medical attention.</p>
<p>5. Fire fighting measures</p>	<p>Flash Point:</p> <p>Auto-ignition Temperature:</p> <p>Lower Explosive Limit:</p> <p>Upper Explosive Limit:</p> <p>Unusual Fire and Explosion Hazards:</p> <p>Extinguishing Media:</p> <p>Special Fire fighting Procedures and Equipment:</p>	<p>None</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>When subjected to extremely high temperatures, it may release small quantities of chlorine gas.</p> <p>As required for surrounding fire. Potash is non-flammable and does not support combustion.</p> <p>Wear full protective clothing and self-contained breathing apparatus. As this material is virtually non-flammable wear PPE sufficient to fight surrounding fire.</p>
<p>6. Accidental release measures</p>	<p>Small Spill:</p> <p>Large Spill:</p> <p>Release Notes:</p> <p>Comments:</p>	<p>Sweep up and use as fertilizer if non-contaminated.</p> <p>Collect with appropriate equipment. If on a hard surface, sweep up residue with brooms. If on soil, remove and collect the top 5 cm of soil.</p> <p>Potash is highly soluble and can be quickly diluted below the toxic level by relatively large amounts of water. Potash Which has entered a small non-permanent pond should be removed by pumping the pond dry. If spill could potentially enter any waterway, including intermittent dry creeks, contact the local authorities. If in the U.S., contact the US COAST GUARD NATIONAL RESPONSE CENTER toll free number, 800-424-8802. In case of accident or road spill notify: CHEMTREC IN USA AT 800-424-9300; CANUTEC in Canada at 613-996-6666 CHEMTREC in other countries at (International code)+1-703-527-3887.</p> <p>See Section XIII for disposal information and Section XV for regulatory requirements. Large and small spills may</p>



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	<p>have a broad Definition depending on the user's handling system. Therefore, the spill category must be defined at the point of release by technically qualified personnel.</p>
<p>7. Handling and storage</p>	<p>Ventilation: Local exhaust to reduce dust concentrations below recommended levels.</p> <p>Handling: Avoid generating dust by excessive or unnecessary movement.</p> <p>Storage: Store in a dry location. Avoid contact with aluminium or carbon steel to minimize corrosion</p>
<p>8. Exposure controls/personal protection</p>	<p>Engineering Control May be necessary to minimize dust levels.</p> <p><u>Personal Protection:</u></p> <p>Eyes Use tight-fitting safety goggles in areas of high dust concentration.</p> <p>Protective Clothing: Gloves, long sleeve shirts and long pants. Launder work clothing regularly</p> <p>Respiratory NIOSH approved dust respirators until engineering controls are implemented</p> <p>Other Protective Clothing or Equipment Optional</p>
<p>9. Physical and chemical properties</p>	<p>Appearance/Color/Odor: 1423°F</p> <p>Melting Point/Range: 357 g/L at 25°C</p> <p>Solubility in Water: 2.0 (H₂O = 1)</p> <p>Specific Gravity: Not Applicable</p> <p>Vapor Density: 1.98 g/ml</p> <p>Bulk Density: 8 - 9 (solution)</p> <p>pH: 1500°C(sublimates)</p> <p>Boiling Point: 1420 - 1500°C</p> <p>Boiling Point/Range: Not Applicable</p> <p>Vapor Pressure (mmHg): 74< 0.5</p>



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	Molecular Weight:	Not Applicable
	% Volatiles: Evaporation Rate:	
10. Stability and reactivity	Stability	Stable
	Hazardous Polymerization:	Will not occur.
	Conditions to avoid Materials to Avoid (Incompatibilities):	None
	Incompatibilities with other Materials	Contact with strong acid may produce hydrogen chlorine gas; contact with hot nitric acid may produce toxic nitrosyl chloride.
	Hazardous Decomposition Products:	None
11. Toxicological information	Significant Routes: of Exposure	Eyes, skin, inhalation, ingestion
	Toxicity to Animals	Oral LD ₅₀ (mouse, rat): 1500 - 2600 mg/kg
	Special Remarks On Toxicity to animals:	Based on toxicity data for another salt compound (i.e. potassium nitrate). Not expected to be toxic by dermal exposure as defined by OSHA
	Other Effects on Humans:	None known.
	Special Remarks: On Chronic Effects On Humans:	Not reported to be carcinogenic mutagenic, teratogenic or allergenic.
	Special Remarks On other Effects on Humans:	None
12. Ecological information	Ecotoxicity Environmental Effects	96 hour LC50 (rainbow trout) 2010mg/L 12 hour TLm (aquatic plants) 1337 mg/L NEOL (aquatic plants) 0.6 g/L 48 hour TLm (daphnia) 337 mg/L 72 hour EC50 (aquatic plants) 2500 mg/L
	Environmental	Dissolves in water and disassociates into K and Cl ions. Will



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	<p>Fate:</p> <p>Toxicity:</p> <p>Degradation</p>	<p>remain in solution until solubility product (350 g/L) reached. Ions may be absorbed by plants or by animals ingesting water containing potash.</p> <p>Non-toxic to aquatic organisms as defined by USEPA</p> <p>Chloride and potassium ions.</p>
<p>13. Disposal considerations</p>	<p>Product Disposal:</p> <p>General Comments:</p>	<p>Uncontaminated product may be used as fertilizer. Otherwise, dispose according to Federal State or Provincial regulations In a landfill approved to receive potash</p> <p>Because of its solubility, potash should not be disposed of in a location where run-off will escape</p>
<p>14. Transport information</p>	<p>Transport Information</p>	<p>In accordance with local and national regulations</p>
<p>15. Other information</p>	<p>NFPA Hazard Rating:</p>	<p>Health 1 Fire 0 Reactivity 0 Special Hazards 0</p> <p>(0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme)</p>
<p>16. Regulatory information</p>	<p>SARA Hazard Category</p>	<p>This product has been reviewed according to the EPA Hazard Categories promulgated under Section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:</p> <p>Fire: No Pressure Generating: No Reactivity: No Acute: No Chronic: No</p> <p>40 CFR Part 355 - Extremely Hazardous Substances:</p>



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	SARA Title III: Information:	40 CFR Part 370 - Hazardous Chemical Reporting: All intentional ingredients listed on the TSCA inventory. This product contains the following substances subject to the reporting requirements of Title III(EPCRA) of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:																								
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	CERCLA/Superfund, 40 CFR Parts 117,302:	If this product contains components subject to substances designated a CERCLA Reportable Quantity (RQ) Substances, it will be designated in the above table with the RQ value in pounds. If there is a release of RQ Substance to the environment, notification to the National Response Center, Washington D.C. (1-800-424-8802) is required.																								
	CANADA:																									
	WHMIS Hazard Symbol and Classification:	Not controlled																								
	Ingredient Disclosure List:	This product does not contain ingredient(s) on this list.																								
	Environmental Protection:	All intentional ingredients are listed on the DSL (Domestic Substance List)																								

THE INFORMATION IN THIS MSDS RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USERS' RESPONSIBILITY TO SATISFY THEMSELVES AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR THEIR OWN PARTICULAR USE.

All non-emergency questions should be
Directed to Customer Service at

972-403-7444

24 hour emergency Telephone: Chemtrec 800-424-9300
National response in Canada: Canutec 613-996-6666
Outside US & Canada: Chemtrec: 202-483-7616

Note: Chemtrec and Canutec emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, exposure or accident involving chemicals.