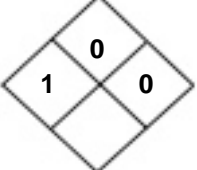


**Distributed By:**  
**SAL Chemical**  
**3036 Birch Drive**  
**Weirton, WV 26062**  
**304-748-8200**

# Material Safety Data Sheet

Revision Issued: 10/23/09	Supercedes: 10/1/06	First Issued: 10/1/2006
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## Section I – Product and Company Identification

<b>Product Name: White Soluble Muriate of Potash</b>		<b>PotashCorp MSDS No.:</b> 24
		<b>ERG No.:</b> N/A
<p>1101 Skokie Blvd., Northbrook, IL 60062          Phone (800) 241-6908 / (847) 849-4200</p> <p>Suite 500, 122 – 1<sup>st</sup> Avenue South          Saskatoon, Saskatchewan Canada S7K7G3          Phone (800) 667-0403 from Canada          (800) 667-3930 from USA</p> <p><b>Emergencies (800) 424-9300 (CHEMTREC)</b>          Web Site <a href="http://www.potashcorp.com">www.potashcorp.com</a>          Health Emergencies, Contact Your Local Poison Center</p>		<p>Flammability</p> <p>Health  Instability</p> <p>Specific Hazard</p> <p><b>NFPA Code</b></p>
<b>Common Name:</b> Potassium Chloride	<b>Formula:</b> KCl	<b>Synonym:</b> Potash, Soluble Fine Grade
		<b>Uses:</b> Soluble Fertilizer / Industrial Chemical

## Section II – Composition / Information On Ingredients

Chemical Name	CAS No.	Exposure Limits								% by Weight
		OSHA PEL		TLV – TWA		STEL		CEIL		
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	
Potassium Chloride	7447-40-7			10*						99-99.8
Sodium Chloride	7647-14-5			10*						0.2-1.0

May contain up to 0.03% neutralized primary aliphatic amines

\* Based on ACGIH nuisance dust limits

## Section III – Hazard Identification

<b>Potential Acute Health Effects:</b>	May cause irritation		
<b>Eyes and Skin:</b>	Mild irritation, especially in open wounds.		
<b>Inhalation:</b>	Exposure to high dust concentrations may cause irritation of mucous membranes.		
<b>Ingestion:</b>	A large body load may cause vomiting, diarrhea, cramps, tingling in hands and feet, weak pulse, and circulatory disturbances.		
<b>Potential Chronic Health Effects:</b>	Lung symptoms		
<b>CARCINOGENICITY LISTS</b>	<b>IARC Monograph:</b> No	<b>NTP:</b> No	<b>OSHA:</b> No

## Section IV – First Aid Measures

<b>Eyes:</b>	Flush eyes with water, including under upper and lower lids, for at least 15 minutes. Get medical attention if pain and irritation persists.
<b>Skin:</b>	Wash thoroughly with water. Obtain medical advice if rash develops.
<b>Ingestion:</b>	Administer water if patient is conscious. Ingesting potash will usually cause purging of the stomach by vomiting. Obtain medical attention.
<b>Inhalation:</b>	Remove to fresh air. Obtain medical attention if discomfort persists.

<b>Section V – Fire Fighting Measures</b>			
<b>Flash Point:</b>	Not Applicable	<b>Autoignition Temperature:</b>	Not Applicable
<b>Lower Explosive Limit:</b>	Not Applicable	<b>Upper Explosive Limit:</b>	Not Applicable
<b>Unusual Fire and Explosion Hazards:</b>	When subjected to extremely high temperatures, it may release small quantities of chlorine gas.		
<b>Extinguishing Media:</b>	As required for surrounding fire. Potash is non-flammable and does not support combustion.		
<b>Special Firefighting Procedures and Equipment:</b>	Wear full protective clothing and self-contained breathing apparatus.		

<b>Section VI – Accidental Release Measures</b>	
<b>Small Spill:</b>	Sweep up and use as fertilizer if non-contaminated.
<b>Large Spill:</b>	Collect with appropriate equipment. If on a hard surface, sweep up residue with brooms. If on soil, remove and collect the top 5cm of soil.
<b>Release Notes:</b>	Non-toxic to aquatic organisms as defined by USEPA. 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.
<b>Comments:</b>	See Section XIII for disposal information and Section XV for regulatory requirements. Large and small spills may 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.

<b>Section VII – Handling and Storage</b>	
<b>Ventilation:</b>	Local exhaust to reduce dust concentrations below recommended levels.
<b>Handling:</b>	Avoid generating dust by excessive or unnecessary movement.
<b>Storage:</b>	Store in a dry location. Avoid contact with aluminum or carbon steel to minimize corrosion.

<b>Section VIII – Exposure Controls/ Personal Protection</b>	
<b>Engineering Controls:</b>	May be necessary to minimize dust levels.
<b>Personal Protection:</b>	
<b>Eye Protection:</b>	Use tight-fitting safety goggles in areas of high dust concentration.
<b>Protective Clothing:</b>	Gloves, long sleeve shirts and long pants. Launder work clothing regularly.
<b>Respiratory Protection:</b>	NIOSH approved dust respirators until engineering controls are implemented.
<b>Other Protective Clothing or Equipment:</b>	Optional.

<b>Section IX – Physical and Chemical Properties</b>			
<b>Appearance/Color/Odor:</b>	White, fine to 1mm size, granules.	<b>Boiling Point:</b>	1500°C (sublimates)
<b>Melting Point/Range:</b>	771-773°C	<b>Boiling Point Range:</b>	1420-1500°C
<b>Solubility in Water:</b>	347 g/L @ 20°C	<b>Vapor Pressure (mmHg):</b>	Not Applicable
<b>Specific Gravity:</b>	2.0 (H <sub>2</sub> O=1)	<b>Molecular Weight:</b>	74
<b>Vapor Density:</b>	Not Applicable	<b>% Volatiles:</b>	<0.5
<b>Bulk Density:</b>	1-1.3 g/mL	<b>Evaporation Rate:</b>	Not Applicable
<b>pH:</b>	about 7	<b>Freezing Point:</b>	Not Applicable
<b>Viscosity:</b>	Not Applicable	<b>Density:</b>	Not Applicable

<b>Section X – Stability and Reactivity</b>	
<b>Stability:</b>	Stable
<b>Hazardous Polymerization:</b>	Will not occur
<b>Conditions to Avoid:</b>	None
<b>Materials to Avoid (Incompatibles):</b>	Contact with strong acid may produce hydrogen chlorine gas; contact with hot nitric acid may produce toxic nitrosyl chloride.
<b>Hazardous Decomposition Products:</b>	None

Section XI – Toxicological Information		
<b>Significant Routes of Exposure:</b>	Skin, eyes, ingestion, inhalation	
<b>Toxicity to Animals:</b>	<b>Acute Oral Toxicity:</b>	(mouse, rat) LD <sub>50</sub> = 1500 - 2600 mg/kg bw.
	<b>Acute Inhalation Toxicity:</b>	No data available.
	<b>Acute Toxicity: Other Routes:</b>	No data available.
	<b>Acute Dermal Toxicity:</b>	No data available.
	<b>Repeated Dose Toxicity:</b>	No data available.
<b>Special Remarks on Toxicity to Animals:</b>	Based on toxicity data for another salt compound (i.e. potassium nitrate). Not expected to be toxic by dermal exposure as defined by OSHA.	
	<b>Developmental Toxicity/Teratogenicity:</b>	No data available.
	<b>Bacterial Genetic Toxicity In-Vitro: Gene Mutation:</b>	( <i>Saccharomyces cerevisiae</i> ) - Mitotic recombination: NOAEL = 300 mM.
	<b>Non-Bacterial Genetic Toxicity In-Vitro: Chromosomal Aberration:</b>	No data available.
	<b>Toxicity to Reproduction:</b>	No data available.
<b>Other Effects on Humans:</b>	Large doses by mouth can cause gastrointestinal irritation, purging, weakness and circulatory disturbances. Potassium chloride used as a dietary supplement in food for human consumption is generally recognized as safe (GRAS).	
	<b>Carcinogenicity:</b> No data available.	
<b>Special Remarks on Chronic Effects on Humans</b>	Not reported to be carcinogenic mutagenic, teratogenic or allergenic	
<b>Special Remarks on Other Effects on Humans:</b>	None.	

Section XII – Ecological Information		
<b>Ecotoxicity</b>	<b>EPA Ecological Toxicity rating :</b>	
	<b>Acute Toxicity to Fish:</b>	( <i>Lepomis macrochirus</i> ) (blue gill) – 96 hour - LC <sub>50</sub> = 2010 mg/L(ppmKCl)
	<b>Chronic Toxicity to Fish:</b>	No data available
	<b>Acute Toxicity to Aquatic Invertebrates:</b>	( <i>Daphnia magna</i> ) - 48 hours - EC <sub>50</sub> = 337 – 825 mg/L; ( <i>Physa heterostropha</i> ) - 96 hrs - LC <sub>50</sub> = 940 mg/L.
	<b>Chronic Toxicity to Aquatic Invertebrates:</b>	No data available
	<b>Acute Toxicity to Aquatic Plants:</b>	(Algae): (( <i>Nitzschia linearis</i> ) diatom) - 5 days- 120 hour TLm = 1,337 ppm KCl; ( <i>Scenedesmus subspicatus</i> ) 72 hour - EC <sub>50</sub> = 2,500 mg/L. ( <i>Chlorella vulgaris</i> ) - 3 – 4 months - NOEC = 600 mg KCl/L, LOEL = 700 mg KCl/L.
	<b>Toxicity to Soil Dwelling Organisms:</b>	No data available
	<b>Toxicity to Terrestrial Plants:</b>	No data available
<b>Environmental Fate:</b>	<b>Stability in Water:</b>	Ions can persist, dissociates in water
	<b>Stability in Soil:</b>	Binds to clay particles.
	<b>Transport and Distribution:</b>	Distribution: 1.51 x 10 <sup>-8</sup> % to air; 45.2 % to water; 54.7% to soil; 0.0755% to sediment.
<b>Toxicity:</b>	Not toxic to aquatic organisms defined by USEPA.	
<b>Degradation Products:</b>	<b>Biodegradation:</b>	Chloride and potassium ions. No data available for biodegradability, photodegradation or bioaccumulation.
	<b>Photodegradation:</b>	No data available.

Section XIII – Disposal Considerations	
<b>Product Disposal:</b>	Uncontaminated product may be used as fertilizer. Otherwise, dispose according to Federal State or Provincial regulations in a landfill approved to receive potash.
<b>General Comments:</b>	Because of its solubility, potash should not be disposed of in a location where run-off will escape.

Section XIV – Transportation Information		
	USDOT	TDG - Canada
Proper Shipping Name:	Not regulated	Not regulated
Hazard Class:		
Identification Number:		
Packing Group (Technical Name):		
Labeling / Placarding:		
Authorized Packaging:		
Notes:		
European Transportation:		

Section XV – Regulatory Information										
UNITED STATES: SARA Hazard Category:	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:									
	Fire:	No	Pressure Generating:	No	Reactivity:	No	Acute:	No	Chronic:	No
	40 CFR Part 355 - Extremely Hazardous Substances:						None			
	40 CFR Part 370 - Hazardous Chemical Reporting:						None			
	All intentional ingredients listed on the TSCA inventory.									
SARA Title III Information:	This product contains the following substances subject of the reporting requirements of Title III (EPCRA) of the Superfund amendments and Reauthorization Act of 1986 and 40 CFR Part 372:									
	Chemical	CAS NO.	Percent by Weight	CERCLA RQ (lbs)*	SARA (1986) Reporting					
					311	312	313			
	Potassium Chloride	7447-40-7	99-99.8	Na	No	No	No			
	Sodium Chloride	7647-14-5	0.2-1.0	Na	No	No	No			
CERCLA/Superfund, 40 CFR Parts 117, 302:	If this product contains components subject to substances designated as 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 contain ingredient(s) on this list.							
	Environmental Protection:		All intentional ingredients are listed on the DSL (Domestic Substance List).							
EINECS#:	(Potassium Chloride) 231-211-8									
	(Sodium Chloride) 231-554-3									
California: Prop 65:	This product contains substances that are known to the State of California to cause cancer and/or reproductive harm									

Section XVI – Other Information				
NFPA Hazard Ratings:	Health: 1	Flammability: 0	Instability: 0	Special Hazards:
	0 = Insignificant	1 = Slight	2 = Moderate	3 = High 4 = Extreme
COMMENTS:				
Section(s) changed since last revision:	I, XV, XVI			
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