



## SAFETY DATA SHEET

Product Name **MURIATE OF POTASH**

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Supplier Name** IMPACT FERTILISERS AUSTRALIA PTY LTD, IMPACT FERTILISERS PTY LTD  
**Address** 20 Lampton Avenue , Derwent Park , TAS, AUSTRALIA, 7009  
**Telephone** (03) 8622 9922  
**Fax** (03) 8622 9939  
**Emergency** 0447 315 140  
**Email** wnewitt@impactfert.com.au

**Synonym(s)** 00-00-50-00.0001 - STOCK CODE • MOP • POTASH • SYLVITE

**Use(s)** FERTILISER

**SDS Date** 03 May 2011

### 2. HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

**UN No.** None Allocated      **DG Class** None Allocated      **Subsidiary Risk(s)** None Allocated  
**Packing Group** None Allocated      **Hazchem Code** None Allocated

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
POTASSIUM CHLORIDE	KCl	7447-40-7	100%

### 4. FIRST AID MEASURES

**Eye** If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

**Inhalation** If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

**Skin** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

**Ingestion** For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.

**Advice to Doctor** Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

**Flammability** Non flammable. May evolve toxic gases (potassium oxides, chlorides) when heated to decomposition.

**Fire and Explosion** Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

**Extinguishing** Prevent contamination of drains or waterways.

**Hazchem Code** None Allocated

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## 6. ACCIDENTAL RELEASE MEASURES

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**Spillage** If spilt (bulk), use personal protective equipment. Contain spillage, then collect and place in suitable containers for disposal. Avoid generating dust.

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## 7. STORAGE AND HANDLING

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**Storage** Store in a cool, dry, well ventilated area, removed from oxidising agents and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

**Handling** Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

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## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

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**Exposure Stds** No exposure standard(s) allocated.

**Biological Limits** No biological limit allocated.

**Engineering Controls** Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

**PPE** Personal Protective Equipment is not required under normal conditions of use. At high dust levels, wear: dust-proof goggles and a Class P1 (Particulate) respirator. With prolonged use, wear: rubber or cotton or PVC gloves and coveralls.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	WHITE TO RED/BROWN COLOURED GRANULES	<b>Solubility (water)</b>	SOLUBLE
<b>Odour</b>	SLIGHT ODOUR	<b>Specific Gravity</b>	2.0
<b>pH</b>	8.0 to 10.0 (10% Solution)	<b>% Volatiles</b>	NOT AVAILABLE
<b>Vapour Pressure</b>	NOT AVAILABLE	<b>Flammability</b>	NON FLAMMABLE
<b>Vapour Density</b>	NOT AVAILABLE	<b>Flash Point</b>	NOT RELEVANT
<b>Boiling Point</b>	1500°C	<b>Upper Explosion Limit</b>	NOT RELEVANT
<b>Melting Point</b>	773°C	<b>Lower Explosion Limit</b>	NOT RELEVANT
<b>Evaporation Rate</b>	NOT AVAILABLE	<b>Decomposition Temperature</b>	NOT AVAILABLE
<b>Autoignition Temperature</b>	NOT AVAILABLE	<b>Viscosity</b>	NOT AVAILABLE
<b>Partition Coefficient</b>	NOT AVAILABLE		

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## 10. STABILITY AND REACTIVITY

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**Chemical Stability** Stable under recommended conditions of storage.

**Conditions to Avoid** Avoid heat, sparks, open flames and other ignition sources.

**Material to Avoid** Incompatible (potentially explosive) with oxidising agents (eg. hypochlorites).

**Hazardous Decomposition Products** May evolve toxic gases (potassium oxides, chlorides) when heated to decomposition.

**Hazardous Reactions** Polymerization will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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**Health Hazard Summary** Low toxicity. Use safe work practices to avoid eye or skin contact and inhalation. Acute potassium poisoning via ingestion is rare as a large single dose usually induces vomiting, and potassium is rapidly excreted by the body, however this product does have the potential to cause cardiovascular disorders.

**Eye** Low to moderate irritant. Contact may result in irritation, lacrimation, pain and redness.

**Inhalation** Low irritant. Over exposure may result in irritation of the nose and throat, with coughing.

**Skin** Low irritant. Prolonged or repeated contact may result in mild irritation, rash and dermatitis.

**Ingestion** Low toxicity. Ingestion may result in gastrointestinal irritation, nausea, vomiting, abdominal pain and diarrhoea. Ingestion of large quantities may result in blood clotting changes, cardiac arrhythmias, increased respiration, muscle weakness, convulsions and coma.

**Product Name**      **MURIATE OF POTASH**

**Toxicity Data**      POTASSIUM CHLORIDE (7447-40-7)  
LD50 (Ingestion): 1500 mg/kg (mouse)  
LD50 (Intraperitoneal): 620 mg/kg (mouse)  
LD50 (Intravenous): 117 mg/kg (mouse)  
LDLo (Ingestion): 20 mg/kg (man)  
LDLo (Intraperitoneal): 900 mg/kg (guinea pig)  
LDLo (Intravenous): 77 mg/kg (guinea pig)  
LDLo (Subcutaneous): 2120 mg/kg (frog)  
TDLo (Ingestion): 60 mg/kg/days (woman)

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**12. ECOLOGICAL INFORMATION**

**Environment**      Limited ecotoxicity data was available for this product at the time this report was prepared. Ensure appropriate measures are taken to prevent this product from entering the environment.

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**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal**      Collect and place in sealable containers and dispose of to an approved landfill site. Contact the manufacturer for additional information.

**Legislation**      Dispose of in accordance with relevant local legislation.

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**14. TRANSPORT INFORMATION**

**NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE**

<b>Shipping Name</b>	None Allocated			
<b>UN No.</b>	None Allocated	<b>DG Class</b>	None Allocated	<b>Subsidiary Risk(s)</b> None Allocated
<b>Packing Group</b>	None Allocated	<b>Hazchem Code</b>	None Allocated	

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**15. REGULATORY INFORMATION**

**Poison Schedule**      A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

**AICS**      All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

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**16. OTHER INFORMATION**

**Additional Information**      RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

**ABBREVIATIONS:**

ACGIH - American Conference of Industrial Hygienists.  
ADG - Australian Dangerous Goods.  
BEI - Biological Exposure Indices(s).  
CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.  
CNS - Central Nervous System.  
EC No - European Community Number.  
HSNO - Hazardous Substances and New Organisms.  
IARC - International Agency for Research on Cancer.  
mg/m<sup>3</sup> - Milligrams per Cubic Metre.  
NOS - Not Otherwise Specified.  
pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).  
ppm - Parts Per Million.  
RTECS - Registry of Toxic Effects of Chemical Substances.  
STEL - Short Term Exposure Limit.  
SWA - Safe Work Australia.  
TWA - Time Weighted Average.

**HEALTH EFFECTS FROM EXPOSURE:**

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**

**Product Name**      **MURIATE OF POTASH**

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

**Report Status**      This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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**SDS Date** 03 May 2011

**End of Report**