



# SAFETY DATA SHEET

## SECTION 1 IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

<b>Product Identifier</b>	<b>POTASSIUM HYDROXIDE FLAKES</b>
<b>Other Names</b>	Caustic Potash
<b>Manufacturer's Product Code</b>	21414
<b>Recommended Use</b>	Soap making ingredient, paint remover, liquid fertilizers and herbicides

### Details of Supplier/Manufacturer

Company:	Recochem Inc. ABN: 69 010 485 999
Address:	1809 Lytton Road, Lytton, Queensland 4178
Phone:	(07) 3308 5200 Fax: (07) 3308 5201
Website:	www.recochem.com.au



### Emergency Telephone Numbers

Business Hours:	(07) 3308 5200
After Hours:	1300 131 001
Poisons Information:	Australia: 13 11 26 New Zealand: 0800 764 766

## SECTION 2 HAZARDS IDENTIFICATION

<b>Hazardous chemical</b>	<i>according to classification by Safe Work Australia</i>
<b>Dangerous goods</b>	<i>according to the Australian Code for the Transport of Dangerous Goods by Road and Rail</i>

<b>Signal Word</b>	<b>DANGER</b>
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GHS Classification	Pictogram	Hazard statement
Acute Toxicity - Oral, Category 4	 EXCLAMATION MARK	H302 Harmful if swallowed
Skin Corrosion/Irritation, Category 1A	 CORROSION	H314 Causes severe skin burns and eye damage
Serious Eye Damage/Irritation, Category 1		

**Product: POTASSIUM HYDROXIDE FLAKES****Precautionary statements:**

<b>GENERAL</b>	
P101	If medical advice is needed, have product container or label at hand
P102	Keep out of reach of children
P103	Read label before use
<b>PREVENTATIVE</b>	
P260	Do not breathe dusts or mists
P264	Wash thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P280	Wear protective gloves/protective clothing/eye protection/face protection
<b>RESPONSE</b>	
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303 + P361 + P353	IF ON SKIN (or hair): Take off contaminated clothing and wash before reuse. Rinse skin with water/shower
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310	Immediately call a POISON CENTER or doctor/physician
P330	Rinse mouth
P363	Wash contaminated clothing before reuse
<b>STORAGE</b>	
P405	Store locked up
<b>DISPOSAL</b>	
P501	Dispose of contents/container in accordance with local regulations

**SECTION 3 COMPOSITION AND INFORMATION ON INGREDIENTS****Ingredients Names and Proportions**

Chemical Entity	CAS Number	Proportion (%)
Potassium Hydroxide	1310-58-3	> 98

**SECTION 4 FIRST AID MEASURES****Description of necessary first aid measures**

Inhalation:	Keep victim calm and remove to fresh air if safe to do so. Remove contaminated clothing. Seek immediate medical advice.
Skin Contact:	DO NOT DELAY. If spilt on large area of skin or hair, immediately drench with running water and remove contaminated clothing. Continue to wash skin and hair with plenty of water until advised to stop by the Poisons Information Centre or a doctor. For skin burns, cover with a clean, dry dressing until medical help is available. Seek immediate medical assistance.
Eye Contact:	DO NOT DELAY. If in eyes, hold eyes open, flood with water for at least 15 minutes. Seek immediate medical assistance.
Ingestion:	DO NOT DELAY. Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give plenty of water to drink. Seek immediate medical assistance.

**Product: POTASSIUM HYDROXIDE FLAKES**

**Symptoms caused by exposure**

Inhalation:	Possible harmful corrosive effects including lesions of the nasal septum, pulmonary edema, pneumonitis and emphysema.
Skin:	Extremely corrosive. Can cause severe burns with deep ulceration. Can penetrate into deeper layers of skin. Corrosion will continue until removed. Burns are not immediately painful; onset of pain may be minutes to hours after contact.
Eye:	Extremely corrosive to eyes. Can penetrate deeply, causing irritation or severe burns. In severe cases, ulceration and permanent blindness may occur.
Ingestion:	May result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the mouth and gastrointestinal tract.

**Medical attention and special treatment**

Treat symptomatically.

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**SECTION 5 FIRE FIGHTING MEASURES**

**Suitable extinguishing equipment**

Not combustible, however, if material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry chemical powder, carbon dioxide.

**Specific hazards arising from the chemical**

Potassium Hydroxide and its solutions will not burn or support combustion. However, reaction of potassium hydroxide with a number of commonly encountered materials can generate sufficient heat to ignite nearby combustible materials.

**Special protective equipment and precautions for fire fighters**

Wear full protective clothing and self-contained breathing apparatus. Hazchem code 2W.

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

Avoid contact with spilled or released material. Shut off leaks, if possible without personal risks. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Wear protective equipment to prevent skin and eye contact and breathing dust. Work upwind or increase ventilation.

**Environmental precautions**

Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterway using sand, earth or other appropriate barriers. Ventilate contaminated area thoroughly. If contamination of sewers or waterways has occurred advise local emergency services.

**Methods and materials for containment and cleaning up**

Cover with damp absorbent inert material, sand or soil. Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal. Caution – heat may be evolved on contact with water. If contamination of sewers or waterways has occurred advise local emergency services.

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**SECTION 7 HANDLING AND STORAGE**

**Precautions for safe handling**

Non-combustible material. Avoid skin and eye contact and breathing dust. Handle and open containers with care in a well-ventilated area. Keep containers closed when not in use – check regularly for spills. Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Wash thoroughly after handling and remove contaminated clothing. Do not eat, drink or smoke in contaminated areas.

**Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well ventilated place out of direct sunlight. Incompatible (may react violently or explosively) with acids, aluminium, tin, zinc and chlorinated hydrocarbons. Will absorb moisture from the atmosphere. Reacts exothermally with water.

**Product: POTASSIUM HYDROXIDE FLAKES****SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION****Exposure control measures**

From National Occupational Health & Safety Commission (NOHSC) Worksafe Australia - Potassium Hydroxide: 2mg/m<sup>3</sup> (peak limitation) TWA

**Biological monitoring**

No biological limit allocated.

**Engineering controls**

Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists and vapours. Keep containers closed when not in use.

**Individual protection measures**

Eye and face protection:	Wear safety goggles.
Skin protection:	Use solvent resistant gloves, nitrile for longer term protection or PVC and neoprene for incidental splashes.
Respiratory protection:	If work practices do not maintain airborne level below the exposure standard, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask and filter. Select a filter for organic gases and vapours (boiling point > 65°C). Respirators should comply with AS1716 or an equivalent approved by a state/territory authority.
Thermal hazards:	Not applicable.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	White solid flakes
Odour:	None
Odour threshold (ppm):	Data not available
pH:	13 approx. (1% solution in water)
Melting point/freezing point (°C):	360 approx.
Initial boiling point and boiling range (°C):	1320 approx.
Flash point (°C):	Data not available
Evaporation rate (Butyl acetate = 1):	Data not available
Flammability:	Non-combustible
Upper/lower flammability or explosive limits (%):	Data not available
Vapour pressure (kPa @ 20°C):	Data not available
Vapour density (air = 1 @ 15°C):	Data not available
Density (g/ml @ 20°C):	2.04
Solubility:	107g/100ml @ 15°C, 178g/100ml @ 100°C
Partition coefficient: n-octanol/water:	Data not available
Auto-ignition temperature (°C):	Data not available
Decomposition temperature (°C):	Data not available
Kinematic viscosity (mm <sup>2</sup> /s @ 25°C):	Data not available

**Product: POTASSIUM HYDROXIDE FLAKES**

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**SECTION 10 STABILITY AND REACTIVITY**

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**Reactivity**

Stable under normal conditions of use. May react violently or explosively with incompatible materials.

**Chemical stability**

Stable under normal conditions of use.

**Possibility of hazardous reactions**

Reacts exothermally with water.

**Conditions to avoid**

Exposure to water/ moisture.

**Incompatible materials**

Acids, aluminium, tin, zinc and chlorinated hydrocarbons.

**Hazardous decomposition products**

Data not available.

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**SECTION 11 TOXICOLOGICAL INFORMATION**

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Acute toxicity:	Harmful if swallowed. LD50 Oral (rat) = 273mg/kg.
Skin corrosion/irritation:	Extremely corrosive, causing severe irritation and burns.
Serious eye damage/irritation:	Extremely corrosive, causing severe irritation and burns.
Respiratory or skin sensitisation:	Data not available.
Germ cell mutagenicity:	Not expected to be mutagenic.
Carcinogenicity:	Not expected to be carcinogenic.
Reproductive toxicity:	Not expected to impair fertility.
Specific Target Organ Toxicity (STOT) – single exposure:	Swallowing can result in harmful effects.
Specific Target Organ Toxicity (STOT) – repeated exposure:	Data not available.
Aspiration hazard:	Data not available.

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**SECTION 12 ECOLOGICAL INFORMATION**

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**Ecotoxicity**

Acute toxicity:

Fish –	Data not available
Aquatic invertebrate –	Data not available
Algae –	Data not available
Microorganisms –	Data not available

Chronic toxicity:

Fish –	Data not available
Aquatic invertebrate –	Data not available

**Product: POTASSIUM HYDROXIDE FLAKES**

Algae –	Data not available
Microorganisms –	Data not available

**Persistence and degradability**

Data not available.

**Bioaccumulative potential**

Data not available.

**Mobility in soil**

Miscible with water.

**Other adverse effects**

Data not available.

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**SECTION 13 DISPOSAL CONSIDERATIONS**

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Ensure waste disposal conforms to local waste disposal regulations.

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**SECTION 14 TRANSPORT INFORMATION**

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<b>UN number:</b>	1813
<b>Proper shipping name:</b>	Potassium Hydroxide, Solid
<b>Australian Dangerous Goods class:</b>	8
<b>Australian Dangerous Goods packing group:</b>	II
<b>Hazchem code:</b>	2W

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**SECTION 15 REGULATORY INFORMATION**

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Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP), Poisons Schedule:	6
Australian Inventory of Chemical Substances (AICS):	Listed
Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76):	37

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**SECTION 16 OTHER INFORMATION**

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Date of preparation:	10/08/2015
Revision number:	4
Changes in this revision:	Update to GHS SDS standard

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This MSDS summarises product safety information at the date of issue, to the best of our knowledge, as a general guide. Recochem cannot anticipate or control the conditions under which the product is used, so prior to usage each user must assess and control the risks associated with their use of the product. Users should also consult the relevant legislation governing the use and storage of this product. We make no warranties, express or implied, and assume no liability in connection with any use of information contained within this document. If clarification or further information is needed, the user should contact Recochem on (07) 3308 5200.

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