

# Material Safety Data Sheet

## 1. IDENTIFICATION OF THE MATERIAL AND THE SUPPLIER

Product Name: VLM  
Other Name: Strong Alkaline cleaner  
UN Number: N/A  
Hazchem Code: N/A  
Dangerous Goods Class: N/A  
Packaging Group: N/A  
Manufacturer's Product Code: VLM

## 2. HAZARDS IDENTIFICATION

Hazardous according to criteria of NOHSC.

**Hazard Category** Corrosive  
**R-phrase(s)** R22  
R35  
R41

**S-phrase(s)** S2  
S24/25  
S26  
S36/37/39  
S45

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Appearance:** Thin yellow liquid with solvent odour

CHEMICAL ENTITY	CAS NO.	PROPORTION (% weight per weight)
Potassium Hydroxide	1310-58-3	<1%w/v
Alkaline Salts		<10%w/v

Other ingredients determined to be non-hazardous.

All the constituents of these materials are listed on the Australian Inventory of Chemical Substances (AICS).

Hazard Classification: Hazardous substance, Dangerous goods  
Class: 8  
Poisons Schedule: Schedule 6

## 4. FIRST AID MEASURES

*Poison Information Centres in each State capital city can provide additional assistance for scheduled poisons. Ring 13 11 26.*

- Ingestion:** Immediately rinse mouth with water. Give water to drink. Do NOT induce vomiting. If vomiting occurs, place victim's face downwards, head lower than hips to prevent vomit entering lungs. Seek immediate medical assistance.
- Eye Contact:** Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Seek medical assistance.
- Skin Contact:** Immediately wash contaminated skin with plenty of water. For gross contamination, immediately drench with water and remove clothing. Remove contaminated clothing and wash before re-use. If swelling, redness, blistering, or irritation occurs seek medical advice
- Inhalation:** Remove victim from exposure – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. For all but the most minor symptoms arrange for patient to be seen by a doctor as soon as possible, either on site or at the nearest hospital.  
Notes to physician: Treat symptomatically and as for strongly alkaline corrosive material.

## 5. FIRE-FIGHTING MEASURES

**Hazchem code:** 2R

**Fire fighting further advice:** *Not combustible. Keep containers cool with water spray. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.*

**Suitable extinguishing media:** *Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).*

## 6. ACCIDENTAL RELEASE MEASURES

*Slippery when spilt. Clear area of all unprotected personnel. Wear protective equipment to prevent skin and eye contamination. Contain using sand and soil – prevent runoff into drains and waterways. For small spills, hose away with copious amounts of water. Use absorbent (soil, sand inert material, vermiculite). Collect and seal in properly labelled containers for disposal.*

## 7. HANDLING AND STORAGE

**Storage:** *As for class 8 dangerous goods. Keep containers closed at all times. Store in cool area away from acids and foodstuffs. Do not store in aluminium or galvanized containers or use die-cast zinc or aluminium bungs. Plastic or steel bungs should be used. Observe good occupational hygiene. Remove contaminated clothing before entering eating areas.*

**Handling:** Always wash hands after handling prior to eating, drinking, smoking or going *to the toilet.*

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**National occupational exposure limits.**

*No value assigned for this specific material by the National Occupational Health and Safety Commission (Worksafe Australia)*

**Engineering Measures:** *No special requirements.*

**Personal Protection Equipment:** *Avoid skin and eye contact. Wear protective clothing, closed footwear, pvc or rubber gloves and safety glasses, goggles or face mask.*

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form / Colour / Odour:** *Thin yellow liquid with solvent odour.*

Specific Gravity: 1.08

Rel Vapour Density: Not determined

Not determined

Flash Point: Not applicable

Flammability Limits: Not applicable

Autoignition Temp (C): Not applicable

% Volatile by Volume: 20%

Solubility in Water: Total

Melting Point (C): Not applicable

Boiling Point (C): Not determined Vapour Pressure:

Decomp. Point (C): Not determined

Sublimation Point: Not determined

pH: 13.0

Viscosity: Not determined

Evaporation Rate: Not determined

## 10. STABILITY AND REACTIVITY

**Stability:** Shelf Life – VLM, when stored in a cool area is a stable product and will not deteriorate within a reasonable time. Avoid conditions of heat and freezing. Avoid contact with aluminium, zinc, brass, galvanized and painted surfaces and acids.

## 11. TOXICOLOGICAL INFORMATION

**Main Symptoms:** No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled are:

### Acute

**Ingestion:** Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain, swelling of the larynx, burns to the oesophagus.

**Eye Contact:** A severe eye irritant. Contamination of the eyes can result in permanent injury. Corrosive to eyes: contact can cause corneal burns.

**Skin Contact:** Contact with skin will result in severe irritation. Repeated or prolonged skin contact may lead to irritant contact dermatitis. Corrosive to skin – may cause skin burns. Skin contact often does not cause pain, thus care should be taken to avoid contaminating gloves and boots

**Inhalation:** Inhalation of mists will result in respiratory irritation and possible harmful corrosive effects including lesions of the nasal septum, pulmonary oedema, pneumonitis and emphysema.

**Long Term effects:** Chronic effects are unlikely due to the severity of acute effects.

**Toxicity Data:** No data available for VLM.

For components:

Potassium Hydroxide – Skin (Rabbit) severe irritation 500mg/24hr

Eyes (Rabbit) severe irritation 1mg/30sec

## 12. ECOLOGICAL INFORMATION

No data available for VLM.

Elevation of pH at point of entry and immediate surrounds. Will be toxic to aquatic organisms.

Avoid contaminating waterways.

## 13. DISPOSAL CONSIDERATIONS

Refer to State Land Waste Management Authority. May be greatly diluted or carefully neutralized with dilute acid and flushed to drain with copious amounts of water. Alternatively, normally suitable for disposal at an approved land waste site.

## 14. TRANSPORT INFORMATION

Classified as Dangerous Goods for the purpose of transport by road or rail. Refer to relevant regulations for storage and transport requirements.

**UN-NO:** 1719

**CLASS:** 8

**HAZCHEM CODE:** 2R

**IERG:** 37

**PACKING GROUP:** II

**Proper shipping name:** Caustic alkali liquid, N.O.S.

**Segregation Dangerous Goods:** *Dangerous goods of Class 8 (corrosive) are incompatible in placard load with any of the following: Class 1, 4.3, 5, 6, 7, 8*

## 15. REGULATORY INFORMATION

*Hazardous according to criteria of Worksafe Australia.*

*Hazard Category Corrosive*

<i>R-phrase(s)</i>	<b>R22</b>	<i>Harmful if swallowed</i>
	<b>R35</b>	<i>Causes severe burns.</i>
	<b>R41</b>	<i>Risk of serious damage to eyes</i>
<i>S-phrase(s)</i>	<b>S2</b>	<i>Keep out of reach of children.</i>
	<b>S24/25</b>	<i>Avoid contact with skin and eyes</i>
	<b>S26</b>	<i>In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</i>
	<b>S36/37/39</b>	<i>Wear suitable protection clothing, gloves and eye/face protection</i>
	<b>S45</b>	<i>In case of accident or if you feel unwell, seek medical advice immediately (show label whenever possible).</i>

*Poisons Schedule (AUST) Toxic Substance (NZ): Schedule 6*

## 16. OTHER INFORMATION

*Literary Reference: 1. M.S.D.S Caustic Potash – June 2009*

*This MSDS summarises at the date of issue or best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Hi-Tech Ag Solutions and its subsidiaries cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.*

*Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.*

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*Date Updated: 13<sup>th</sup> June 2014*

**End of MSDS**