

Infosafe No™ VAR8K Issue Date : June 2016 ISSUED by HUNTERST

Product Name **COMMERCIAL LIQUID ALKALI**

Classified as hazardous

1. Identification

GHS Product Identifier COMMERCIAL LIQUID ALKALI

Company Name Hunters Products (TAS) Pty. Ltd. (ABN 004 601 263)

Address 60 Gleadow Street INVERMAY
TAS 7248 Australia

Telephone/Fax Number Tel: 03 6331 4755
Fax: 03 6334 1065

Emergency phone number 0407 610 542

Recommended use of the chemical and restrictions on use As a strong alkali. Use as directed on the product label.

2. Hazard Identification

GHS classification of the substance/mixture Acute Toxicity - Oral: Category 4
Skin Corrosion/Irritation: Category 1A

Signal Word (s) DANGER

Hazard Statement (s) H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

Precautionary statement - General P102 Keep out of reach of children.
P103 Read label before use.

Pictogram (s) Corrosion, Exclamation mark



Precautionary statement - Prevention P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash contaminated skin thoroughly after handling
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement - Response 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): Remove/Take off immediately all contaminated clothing. 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.
P363 Wash contaminated clothing before reuse.

Precautionary statement - Storage P405 Store locked up.

Precautionary statement - Disposal P501 Dispose of contents/container in accordance with local regulations.

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Potassium hydroxide	1310-58-3	10-30 %
	Sodium hydroxide	1310-73-2	10-30 %

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Ingredients determined to 100%
not to be hazardous,
including water.

4. First-aid measures

Inhalation Remove from exposure. If aspirated into the lungs, obtain immediate medical attention.

Ingestion Immediately rinse mouth with water. Do NOT induce vomiting. Give a glass of water to be taken slowly. Seek immediate medical attention.

Skin Remove all contaminated clothing and immediately wash affected area with plenty of water. If swelling, redness, blistering or irritation occurs, seek medical advice.

Eye contact Hold eyes open and flood with running water for at least 15 minutes, bathe eyes with soothing eyedrops or sterile saline, urgently seek medical attention. Transport to hospital or medical centre.

First Aid Facilities Eye wash station and normal washroom facilities.

Advice to Doctor Product is a mixture containing sodium and potassium hydroxide. Corrosive by all routes. Risk of serious eye damage. If swallowed, may cause holes in stomach and intestines; gastric lavage may be contraindicated. Contact Poisons Information Centre.

5. Fire-fighting measures

Suitable extinguishing media Use extinguishing media appropriate to surrounding fire.

Hazards from Combustion Products Water vapour, carbon dioxide, oxides of nitrogen. Incomplete combustion may generate carbon monoxide.

Specific Methods In case of small fire/explosion use water. In case of major emergency use PPE: breathing apparatus and protective gloves.

Specific hazards arising from the chemical Not flammable. Contact with aluminium, tin, zinc or galvanised iron may generate hydrogen, a flammable gas. Will react vigorously or violently with acids, generating much heat, and giving off carbon dioxide, a simple asphyxiant. Contact with ammonium compounds will generate ammonia, a poisonous gas.

Hazchem Code 2R

6. Accidental release measures

Emergency Procedures Contain.

Spills & Disposal For large spills:
Contain spillages with sand or earth. Transfer both liquid and solids to suitable container(s). Treat residues as for small spills.
For small spills:
If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise, absorb on inert absorbent and transfer to suitable container. Wash site of spillage thoroughly with water and detergent. Ventilate area to dispel any residual vapours.

7. Handling and storage

Conditions for safe storage, including any incompatibilities Store in cool place in original container. Store away from oxidisers, acids and foodstuffs. Keep containers closed when not in use. Store out of reach of children. Large quantities should be stored in a bunded area. Do not mix with other chemicals. Clean up all spills and splashes promptly; avoid secondary accidents.

Unsuitable Materials Incompatibles: Acids, active metals (such as aluminium, tin, zinc), ammonium compounds, combustible materials, nitro compounds, organic halogen compounds.

8. Exposure controls/personal protection

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Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Potassium hydroxide			2		Peak limitation
	Sodium hydroxide			2		Peak limitation
Appropriate engineering controls	In very confined spaces have sufficient ventilation. Do not atomise the product. Do not enter confined spaces where vapours may have accumulated. Keep containers closed when not in use. Do not decant in unlabelled bottles. Avoid using aluminium, tin, zinc, galvanised iron, wood or wood products as materials of construction.					
Personal Protective Equipment	Avoid contact with skin and eyes. Avoid breathing aerosols. Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard:- Normal Use: Eye/face protection Gloves, rubber or plastic. Industrial Quantities: Face shield or safety glasses Gloves, rubber or plastic Plastic apron, sleeves and boots Impervious overalls. Always maintain a high level of personal hygiene when using cleaning chemicals. That is wash hands before eating, drinking, smoking or using the toilet.					

9. Physical and chemical properties

Form	Liquid
Appearance	Clear, colourless, heavy liquid.
Odour	Practically odourless.
Boiling Point	approx. 100C
Solubility in Water	Miscible with water in all proportions.
Specific Gravity	1.4
pH	>13
Flash Point	None
Flammability	Not flammable.
Other Information	Very alkaline mixture. Will react vigorously or violently with acids or acidic compounds. Corrodes active metals, such as aluminium, tin or zinc, generating hydrogen, a flammable gas. Contact with ammonium compounds may generate ammonia, a toxic gas. Will absorb carbon dioxide from the air, forming carbonates. May react with organic halogen compounds, especially trichloroethylene. May form shock-sensitive salts with nitro compounds. Will attack wood and wood products. May attack glass on prolonged contact. Slippery when spilled.

10. Stability and reactivity

Chemical Stability	Stable under normal use conditons.
Conditions to Avoid	Incompatible materials, prolonged exposure to air.
Incompatible Materials	Acids and acidic compounds, active metals, ammonium compounds, glass, nitro compounds, organic halides, wood and paper products.
Hazardous Decomposition Products	Oxides of sodium and potassium.

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Possibility of hazardous reactions Hydrogen gas is generated when undiluted material contacts aluminium, zinc or tin. May react violently with acids. May generate ammonia from ammonium compounds. May react violently with organic halides. May form shock-sensitive salts with nitro compounds.

11. Toxicological Information

Acute Toxicity - Oral LD50 Potassium Hydroxide: 273mg/kg oral, rabbit
Sodium hydroxide No data

Ingestion Corrosive. May cause serious burns to the mouth, throat and gastrointestinal system. May cause a burning pain in the throat and epigastrium, nausea, vomiting, abdominal pains and diarrhoea (occasionally bloody), fall in blood pressure, death. May cause burns and perforation of the stomach and intestines, and the sites of subsequent scarring have been associated with the development of stomach cancer.

Inhalation An unlikely route owing to the low volatility of ingredients. Inhalation of aerosols may cause serious lung damage, and pulmonary oedema (fluid build-up in the lungs). Onset of symptoms may be delayed.

Skin Corrosive to skin - may cause skin burns. Skin contact often does not cause pain, thus care should be taken to avoid contamination of gloves and footwear. Repeated or prolonged contact may lead to irritant contact dermatitis. Mists or aerosols may cause small burns.

Eye Corrosive. Risk of serious eye damage, and permanent impairment of sight. May cause redness, pain and blurred vision. Liquid splashes into the eye may rapidly cause severe tissue damage and deep burns.

Chronic Effects Long term, low level exposure can lead to irritation of skin, lungs, nose, throat and mouth.

12. Ecological information

Ecotoxicity Harmful to aquatic organisms.

Persistence and degradability No data.

Mobility Readily transported by water.

Environmental Protection Avoid contaminating waterways, drains, sewers, or ground.

13. Disposal considerations

Waste Disposal Land fill, incineration, sewer (small quantities). Refer to Land Waste Management Authority in your State.

Product Disposal Avoid disposal to natural waters or the environment.

Container Disposal Do not use containers of aluminium, tin, zinc, galvanised iron, or glass.

Special precautions for landfill or incineration Unsuitable for incineration.
May be unsuitable for some landfill sites.

14. Transport information

Transport Information Classified as a Class 8 Dangerous Good. Dangerous Goods of Class 8 Corrosives are incompatible in a placard load with any of the following: - Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids and Class 7. Store away from acids.

U.N. Number 1719

UN proper shipping name CAUSTIC ALKALI LIQUID, N.O.S.

Transport hazard class(es) 8

Hazchem Code 2R

Packing Group II

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EPG Number 8A1

IERG Number 37

15. Regulatory information

Poisons Schedule S6

Hazard Category Corrosive

AICS (Australia) All components listed.

16. Other Information

Signature of Preparer/Data Service Technical Manager 0407 610 542

Technical Contact Numbers Emergency Advice All Hours:
Technical Manager: 0407 610 542 Mon-Fri 8am - 6pm
Poisons Information Centre: 13 11 26 - 24hrs
Transport/Fire Emergency: 000 (Emergency services)

Other Information This SDS summarises at the date of issue our 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. Please refer to the technical datasheet (Instructions for use), and the label on the drum. The company cannot anticipate or control the individual working conditions encountered and so each user should read this SDS carefully, and if in doubt ring the Contact Point Number given below.
...End Of MSDS...

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