



Section 1: Identification of the Material and Supplier

Product Name: Alkawash

Other Names: Aqueous solution of alkaline salts with a small proportion of available chlorine.

Proper shipping name (ADG Code):
Corrosive solid, basic, inorganic, n.o.s.
(sodium hydroxide, sodium metasilicate)

Recommended use: As an aggressive cleaner/sanitiser.
Use as directed on the product label.
In food or meat preparation areas, rinse all surfaces with potable water after use.

Supplier: Hunters Products (TAS) Pty. Ltd.,
A.C.N. 004 601 263

HEAD OFFICE
60 Gleadow Street,
INVERMAY TAS 7248
Tel: 03 6331 4755
Fax: 03 6334 1065

HOBART OFFICE
105 Albert Road,
MOONAH TAS 7009
Tel: 03 6228 7955
Fax: 03 6228 7988

BURNIE OFFICE
22 Pearl Street,
WIVENHOE TAS 7320
Tel: 03 6431 9627
Fax: 03 6432 2083

Emergency Phone Numbers:
Transport/Fire Emergency: 000 (Emergency services)
Medical Emergency: 131126 (Poisons Information Centre)

Section 2: Hazards Identification

Classified as hazardous according to criteria of Worksafe Australia.
Dangerous goods.

Risk Phrases:	R: 35	Causes severe burns.
Safety Phrases:	S: 1/2	Keep locked up and out of the reach of children.
	S: 13	Keep away from food, drink and animal feeding stuffs.
	S: 24/25	Avoid contact with skin and eyes.
	S: 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S: 36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	S: 45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Section 3: Composition/Information on Ingredients

Ingredients:

Sodium hydroxide	[1310-73-2]	30 - 60 %
Sodium metasilicate pentahydrate	[10213-79-3]	10 - 30 %
Other ingredients deemed not to be hazardous		10 - 30 %
Available chlorine	[7782-50-5]	to 2.36 %

Section 4: First Aid Measures

For advice, contact a Poisons Information Centre (Phone 131126) or a doctor.

Swallowed: If swallowed, do NOT induce vomiting.

Skin: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

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

Inhaled: Remove from exposure, rest and keep warm. Seek medical advice.

First Aid facilities:

Mandatory: Eye wash. Hand wash basin.

Recommended: Emergency shower if handling industrial quantities.

Advice to Doctor:

Product is a mixture of alkaline salts containing a high proportion of sodium hydroxide. Corrosive by all routes. Causes severe burns. Risk of serious and permanent damage to eyes. If swallowed, may cause holes in stomach and intestines. Contact Poisons Information Centre.

Aggravated medical conditions:

No specific data found.

Section 5: Fire Fighting Measures

HAZCHEM Code: 2 X

Evacuate: No.

Extinguishant: Water fog or fine water spray.

Risk of violent reaction or explosion: No.

Products of combustion:	Water vapour, oxides of carbon, oxides of phosphorus, oxides of nitrogen, hydrogen chloride.
Protective Equipment:	Full protective clothing, including breathing apparatus and protective gloves.

Section 6: Accidental Release Measures

Emergency Procedures:

Contain.
Increase ventilation.

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 closed container. Wash site of spillage thoroughly with water and detergent. Ventilate area to dispel any residual vapours.

Section 7: Handling and Storage

Precautions for safe handling:

Avoid contact with skin and eyes.
Avoid breathing dust or vapours.
Keep away from acids.

Conditions for safe storage:

Store in a cool, well ventilated place, out of reach of children. Large quantities should be stored in a bunded flammables store. Store in original container. Keep container tightly closed and out of direct sunlight. Keep away from acids and acidic materials. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.

Incompatibles:

Acids, active metals (such as aluminium, tin, zinc and galvanised iron), ammonium compounds, organic halides, nitro compounds, wood and wood products.

Section 8: Exposure Controls/Personal Protection

National Exposure Standards:

ES-TWA:	Sodium hydroxide	2 mg/m ³
	Chlorine	1 ppm, 3 mg/m ³
ES-STEL:	None assigned.	
ES-PEAK:	Sodium hydroxide	2 mg/m ³
	Chlorine	1 ppm, 3 mg/m ³

Notations: None.

[Peak] indicates a ceiling concentration which should not be exceeded, even momentarily.

Biological Limit Values: No data found.

Engineering Controls:

Do not use active metals, wood or wood products as materials of construction.
 Ensure adequate ventilation (same as outdoors) when using.
 If handling industrial quantities, or if dust/vapour risk exists, consider local mechanical exhaust/extraction to keep airborne contamination as low as possible and at least below the TLV.

Personal Protective Equipment:

Avoid contact with skin and eyes. Avoid breathing dust or vapours. 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.

Section 9: Physical and Chemical Properties

Appearance:	White, granular, slightly dusty, powder.
Odour:	Slight chlorine odour.
	Odour threshold: 0.3 ppm.
pH:	14 Very alkaline.
Vapour Pressure:	No data.
Vapour Density:	No data.
Boiling Point:	No data.
Melting Point:	No data.
Volatiles:	> 2 % as available chlorine.
Volatile Organic Compounds (VOC):	Nil.
Evaporation Rate:	No data.
Solubilities:	Soluble in water with generation of much heat.

Specific Gravity/Density: No data.
Flash Point: None.
Flammable Limits: None.
Dust Explosion: Will not occur.
Auto-ignition Temperature: No data.

Other Information:

Highly alkaline mixture. Hygroscopic, will absorb moisture from the air. Will react vigorously or violently with acids, generating carbon dioxide, a simple asphyxiant, and chlorine, a toxic gas. Contact with active metals may generate hydrogen, a flammable gas. Contact with ammonium compounds may generate ammonia, a toxic gas. May form shock-sensitive products with nitro-compounds. Will attack wood and wood products. Incompatible with organic halides. May attack glass on long contact. Spillages will become very slippery when wet.

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Incompatible materials.

Incompatible Materials: Moisture, acids, active metals, organic halides, ammonium compounds, nitro compounds, wood and wood products.

Hazardous Decomposition Products: Oxides of phosphorus, oxides of nitrogen, chlorine, hydrogen chloride.

Hazardous Reactions: Reacts vigorously or violently with acids. Contact with active metals may generate hydrogen. Contact with ammonium compounds may generate ammonia. May form shock-sensitive products with nitro-compounds. Generates much heat when mixed with water - may boil violently if added to hot water.

Section 11: Toxicological Information

Health Effects:

No data available for the mixture. Information presented relates to individual ingredients.

Acute: **Swallowed:** May cause burns to the mouth and throat, nausea, vomiting, abdominal pains and diarrhoea (occasionally bloody), fall in blood pressure, heart failure, coma and death. May cause holes in stomach and intestines. Damage may not be apparent until days later, but may still prove fatal. If not immediately fatal, consequent scarring has been associated with the later development of stomach cancer.

Skin:	Corrosive. Causes severe, deep burns. Dust or mists may cause small burns.
Eyes:	Corrosive. Contact with eyes may rapidly cause severe tissue damage, redness, pain, blurred vision. May cause permanent vision impairment or even total loss of sight.
Inhaled:	Inhalation of dusts may cause damage to the upper respiratory tract. Symptoms may range from mild irritation of the mucous membranes to severe pneumonitis (irritation and inflammation of lung tissues). May cause cough, a burning sensation, laboured breathing, sneezing, sore throat and a runny nose. May cause pulmonary oedema (fluid build-up in the lungs) which may become a medical emergency. Onset of symptoms may be delayed.
Chronic:	Repeated skin contact may lead to dermatitis. Repeated exposure to low levels of chlorine gas may lead to chloracne and erosion of the teeth.
LD₅₀ :	Sodium hydroxide No data found. Sodium metasilicate pentahydrate 847 mg/kg oral, rat.
LDLo:	Sodium hydroxide 1.57 mg/kg oral, human - anorexia, body temperature increase, primary irritation (after topical exposure), death. 500 mg/kg oral, rabbit.

Section 12: Ecological Information

Ecotoxicity:	Corrosive. Harmful to aquatic organisms.
Persistence and degradability:	No data.
Mobility:	Readily transported by water.
Environmental Fate:	No data.
Bioaccumulative potential:	No data.
Other adverse environmental effects:	Contains a low proportion of available chlorine. Contains a moderate proportion of phosphates. May contribute to the development of algal blooms in natural waters.

Section 13: Disposal Considerations

The generator of any wastes from this product is responsible for its proper classification, transport and disposal.

Consult appropriate local and State regulations.

Disposal methods and containers:

Avoid disposal to natural waters or the environment.

Special precautions for landfill or incineration:

Unsuitable for incineration.

May be unsuitable for some landfill sites.

Section 14: Transport Information

UN Number:	UN 3262
UN Proper shipping name:	Corrosive solid, basic, inorganic, n.o.s. (sodium hydroxide, sodium metasilicate)
Class and subsidiary risk:	8 Corrosive.
Packaging group:	II
Special precautions for user:	Do not store or transport with dangerous goods of classes 1, 4.3, 5.1, 5.2, 7, 8 (acids), foodstuff and foodstuff empties. Contain spillages.
HAZCHEM Code:	2 X
Material for export:	Regulated. Refer to IMO/IMDG and IATA/ICAO .

Section 15: Regulatory Information

Poisons (SUSDP):	Schedule 6 <i>Sodium hydroxide > 5 %</i>								
Dangerous Goods:	Yes. UN 3262 8/II 2 X.								
Carcinogen:	<table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">Australia</td> <td>IARC</td> <td>NTP</td> <td>RTECS</td> </tr> <tr> <td>No.</td> <td>No.</td> <td>No.</td> <td>No.</td> </tr> </table>	Australia	IARC	NTP	RTECS	No.	No.	No.	No.
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No.	No.	No.	No.						
Agricultural and Veterinary Chemicals Act:	Not applicable.								
Australian Inventory of Chemical Substances (AICS):	Listed.								
Other National/International Regulations:	No data.								

Section 16: Other information

Date of MSDS update: September 2008
Complete review and re-write of all sections.

Abbreviations:

NOHSC - National Occupational Health and Safety Commission.
ACGIH - American Conference of Governmental Industrial Hygienists.
MAK - Maximum workplace concentration - Germany,
(*maximale Arbeitsplatzkonzentration*)
IARC - International Agency for Research on Cancer (France).
NPT - National Toxicology Program (USA).
RTECS - Registry of Toxic Effects of Chemical Substances.

Literature references:

Other Available Sources of Data:

National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [2011(2003)] - NOHSC.
Australian Dangerous Goods Code.
Standard for the Uniform Scheduling of Drugs and Poisons - AHMAC.
Exposure Standards for Atmospheric Contaminants in the Occupational Environment [1003]- NOHSC.
List of Designated Hazardous Substances [10005] - NOHSC.
Merck Index - Merck Inc.
Sax's Dangerous Properties of Industrial Materials - Lewis.
Handbook of Toxic and Hazardous Chemicals and Carcinogens - Sittig.
Handbook of Reactive Chemical Hazards - Bretherick.
Hawley's Condensed Chemical Dictionary - Wiley Interscience.
AUSREG's Chemical Data Package for PCs - AUSREG Consultancy.