



Section 1: Identification of the Material and Supplier

Product Name: Cleanline

Other Names: Caustic alkali solution.

Proper shipping name (ADG Code): Caustic alkali liquid, n.o.s.
(sodium hydroxide, disodium trioxosilicate)

Recommended use: As a cleaner and steriliser for lines, pipes, cooling units and general equipment used in drawing beer.
Use as directed on the product label.

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: 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S: 37/39 Wear suitable 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]	10 - 30 %
Sodium metasilicate pentahydrate	[10213-79-3]	< 10 %
Other ingredients deemed not to be hazardous		< 10 %
Water	[7732-18-5]	to 100 %

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 an alkaline mixture in aqueous solution containing a moderate proportion of sodium hydroxide. Corrosive by all routes. Causes severe burns. Risk of serious eye damage. Contact Poisons Information Centre.

Aggravated medical conditions:

No specific data found.

Section 5: Fire Fighting Measures

HAZCHEM Code: 2 R

Evacuate: No.

Extinguishant: Water fog or fine water spray.

Risk of violent reaction or explosion: No.

Products of combustion: Water vapour, oxides of carbon, sodium oxide fume, traces of nitrogen oxides.

Protective Equipment: Full protective clothing, including breathing apparatus and protective gloves.

Section 6: Accidental Release Measures

Emergency Procedures:

Dilute.

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.

Section 7: Handling and Storage

Precautions for safe handling:

Avoid contact with skin and eyes.
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 banded dangerous goods store. Store in original container. Keep container tightly closed and out of direct sunlight. Keep away from acids. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.

Incompatibles:

Acids, acidic salts, ammonium compounds, active metals.

Section 8: Exposure Controls/Personal Protection

National Exposure Standards:

ES-TWA: Sodium hydroxide 2 mg/m³

ES-STEL: None assigned.

ES-PEAK: Sodium hydroxide 2 mg/m³

Notations: None.

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

Biological Limit Values: No data found.

Section 10: Stability and Reactivity

- Chemical Stability:** Stable under normal conditions.
- Conditions to Avoid:** Incompatible materials.
- Incompatible Materials:** Acids, active metals, ammonium compounds, organic halides, metal salts, wood and wood products.
- Hazardous Decomposition Products:** Sodium oxide fume, traces of oxides of nitrogen.
- Hazardous Reactions:** Reacts vigorously or violently with acids. Contact with ammonium compounds may generate ammonia gas. Contact with active metals may generate hydrogen.

Section 11: Toxicological Information

- Health Effects:**
No data available for the mixture. Information presented relates to individual ingredients.
- Acute:**
- Swallowed:** May be fatal if 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 the stomach and intestines. Damage may not be apparent for days after ingestion, but may still prove fatal.
 - Skin:** Corrosive. May cause severe burns.
 - Eyes:** Corrosive. Contact with the eyes may rapidly cause redness, pain, blurred vision and severe tissue damage, which may result in permanent sight impairment.
 - Inhaled:** Inhaled aerosols may cause damage to the upper respiratory system, cough, sneezing, laboured breathing, sore throat and severe inflammation of lung tissues. May cause pulmonary oedema (fluid build-up in the lungs) with potential to become a medical emergency. Onset of symptoms may be delayed for some hours.
- Chronic:** Repeated skin exposure may lead to dermatitis and skin burns.

LD₅₀:	Sodium hydroxide	No data found.
	Sodium metasilicate	1,153 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.
LCLo:	Sodium hydroxide	25 pph skin, rabbit.

Section 12: Ecological Information

Ecotoxicity:	Toxic 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:	No data.

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.
Avoid using metal containers.

Special precautions for landfill or incineration:

Unsuitable for incineration.

Section 14: Transport Information

UN Number:	UN 1719
UN Proper shipping name:	Caustic alkali liquid, n.o.s. (sodium hydroxide, disodium trioxosilicate)
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.

HAZCHEM Code: 2 R

Material for export: Regulated.
Refer to **IMO/IMDG** and **IATA/ICAO**.

Section 15: Regulatory Information

Poisons (SUSDP): Schedule S6
Sodium hydroxide > 5 %

Dangerous Goods: Yes. UN 1719 8/II 2 R.

Carcinogen:	Australia	IARC	NTP	RTECS
	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: June 2007
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.

