

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: HYCHLOR

1. Product and Company identification	
Product Name	HYCHLOR
Product Description	High Foaming Caustic Cleaner
Manufacturer/ Supplier	Hychem (Pty) Ltd
Physical address	11/13 Silverstone Crescent Kyalami Business Park Midrand
Postal Address	PO Box 5742; Rivonia; 2128
Contact Details	Emergency: 011-4661885

2. Composition/ Information on ingredients	
Chemical Nature	Alkaline Liquid
Components contributing to the hazard	Sodium Hydroxide, Sodium Hypochlorite
Chemical or generic name of components	N/A
Concentration range	NaOH-Medium, NaClO- Low
VHIGH >60%, HIGH 30-60%, MED 10-29%, LOW 1-9%, VLOW >1%	
Classification and hazard labelling	Corrosive label 8
Major hazard	Severe Irritant
UN/ CAS	UN1824
R-Phrases	R36, R38

3. Hazard identification (Summary of most important hazards)	
Hazard category	Corrosive/ Class 8
Adverse human health affects	Severe Irritant to eyes, skin and if ingested
Environmental effects	Corrosive to animal and vegetable tissue
Classification of the chemical product	Handle open container with care Not explosive or flammable

4. First Aid Measures <i>Note: Wear PVC gloves and eyewear when handling contaminated clothing</i>	
Action to be avoided	Do not induce vomiting
Inhalation	Remove patient from exposure as it may cause irritation and damage to the respiratory tract
Skin contact	Remove contaminated clothing. Wash skin well with large quantities of water. Obtain medical assistance urgently
Eye contact	Act quickly. Remove contact lenses. Keep eyes open and flush with clean water for at least 30 minutes. Obtain medical assistance urgently.
Ingestion	Do not induce vomiting. Wash out mouth with water and give +300ml of clean water to drink.
Note to physician	Treat symptomatically as for Sodium Hydroxide and Bleach

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5. Fire fighting measures	
Extinguishing media	Non flammable
Specific hazards	Will not burn or support fires. Hydrogen liberation when in contact with soft metals.
Hazardous Combustion Products	High temperatures may produce hazardous chlorine and hydrogen chloride gas.
Special equipment for protection	Not applicable

6. Accidental release measures	
Personal precautions	Avoid eye and skin contact. Do not ingest
Environmental precautions	Do not allow the product to enter soil, ground and waterways. Toxic to aquatic life
Methods for cleaning up recovery	Mechanically or liquid binding material i.e. sand
Neutralisation and disposal of spillage	Apply a strong solution of Acetic Acid and remove to waste disposal area

7. Handling and storage	
Observe the usual precautionary measures for handling and storing chemicals	
Handling	Do not ingest, avoid eye and skin contact Ensure container is properly closed and not leaking Keep away from acids.
Storage	Keep container tightly closed in a dry secure area Store away from Acids's and food stuff. Out of reach of children. Check containers regularly for leakage and possible distension. Material must be stored in accordance with local rules and legislation

8. Exposure controls/ Personal protection	
Control Parameters	
Limit values	To be monitored at the work place
Biological standards	Refer to UN and R-Phrase numbers
Monitoring procedures	Keep container closed when not in use
Personal protective equipment	Refer to the S-Phrase data
Protective clothing	In abnormal conditions use an approved respirator PVC gloves and eyewear
Personal hygiene measures	Wash contaminated clothing before storage and re-use

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9. Physical and chemical properties	
Form	Slight Viscous Liquid
Colour	Straw Yellow
Odour	Faint Chlorine
PH Value	12-14 (1% Soln)
Boiling point/ boiling range °C	>100c
Flash point	Not applicable
Vapour pressure	Not ascertained
Vapour density	Not ascertained
Density	Not ascertained
Solubility	Soluble in water
Viscosity at 20°C	Not ascertained
Specific gravity at 20°C	1.2-1.25

10. Stability and reactivity	
Stability and possible hazardous reactions	Product is stable under normal storage conditions
Conditions/ materials to avoid	STRONG ACIDS, NITRO and CHLORO ORGANIC COMPOUNDS. Reacts with soft metals to produce flammable hydrogen gas.
Hazardous decomposition	High temperatures may promote production of chlorine and other gasses

11. Toxicological information	
LD 50test on animals available on certain raw materials in product	
Acute Toxicity	None known
Local effects	None known
Sensitisation	Can cause irritation of the eyes, skin
Chronic toxicity	None
Long term toxicity	None

12. Ecological information	
Possible environmental effects	Dangerous to aquatic life in high concentration
Behaviour and fate	Soluble in water. Avoid large product spillage from entering waterways
Persistence/ Biodegradability	Biodegradable in water

13. Disposal considerations	
Disposal of chemical product	According to the local rules and legislation
Disposal of contaminated packaging	Recommended cleaning agent - water

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14. Transport regulations	
Packaging group	II
Classification	Group 8, Corrosives

15. Regulatory information	
National legislation	Refer to the below Risk and Safety phrase Data
Hazard and safety information	Take usual good care
EEC hazard classification Risk phrases	R36 – Irritating to the eyes
	R38 – Irritating to the skin
EEC hazard classification Safety phrases	S7 – Keep container tightly closed
	S13 – Keep away from food, drink and animal feeding stuff
	S18 – Open and handle container with care
	S25 – Avoid contact with eyes
	S26 – In case of contact with eyes, rinse immediately with plenty of water. Seek medical advice
	S27 – Remove contaminated clothing

16. Additional information (e.g. special training or restrictions on the products use)	
Refer to product data sheet	
This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.	