

## MATERIAL SAFETY DATA SHEET

PRODUCT NAME: LIQUIBOOST

<b>1. Product and Company identification</b>	
Product Name	LIQUIBOOST
Product Description	Liquid laundry alkali booster
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: 011-466 1885

<b>2. Composition/ Information on ingredients</b>	
Chemical Nature	Highly alkaline clear liquid
Components contributing to the hazard	Sodium Hydroxide
Chemical or generic name of components	Caustic soda
Concentration range	High
VHIGH >60%, HIGH 30-60%, MED 10-29%, LOW 1-9%, VLOW >1%	
Impurities contributing to the hazard	None known
Classification and hazard labelling	Corrosive - Class 8
Major hazard	Severe Irritant
UN/ CAS	UN1824
R-Phrases	R21, R22, R34, R41

<b>3. Hazard identification (Summary of most important hazards)</b>	
Hazard category	Corrosive (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	Class 8 Corrosive

<b>4. First Aid Measures</b>	
Action to be avoided	Do not induce vomiting
Inhalation	Not applicable, product dispensed automatically. In case of unusual exposure remove patient to fresh air and seek medical assistance if required.
Skin contact	Remove contaminated clothing. Wash skin well with large quantities of water and rinse with a dilute solution of vinegar. Obtain medical assistance immediately.
Eye contact	Act quickly, keep eyes open and flush with clean water for at least 30 minutes. Obtain medical assistance urgently.
Ingestion	Wash out mouth with water and give 200-300ml of water to drink. Do not induce vomiting.
Note to physician	Treat symptomatically as for Sodium Hydroxide

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<b>5. Fire fighting measures</b>	
Extinguishing media	Non flammable
Inappropriate distinguishing media	Not applicable
Specific hazards	None
Special equipment for protection	None required

<b>6. Accidental release measures</b>	
Personal precautions	Wear protective gear to avoid eye and skin contact. Do not ingest.
Environmental precautions	Do not allow product spillage to enter soil, ground and waterways. Dangerous to aquatic life.
Methods for cleaning up recovery	Mechanically or liquid binding material i.e. sand
Neutralisation and disposal of spillage	Product must be neutralised with acid prior to disposal of large volumes. Suggested that disposal is performed by authorised waste disposal company.

<b>7. Handling and storage</b>	
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 food stuff and acids. Store out of reach of children. Check containers regularly for leakage and possible distension. Material must be stored in accordance with local rules and legislation

<b>8. Exposure controls/ Personal protection</b>	
<u>Control Parameters</u>	
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	Wear protective eyewear, PVC gloves and apron. In abnormal conditions wear a face mask to prevent inhalation (product is dispensed automatically)
Personal hygiene measures	Wash contaminated clothing before storage and re-use

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<b>9. Physical and chemical properties</b>	
Form	Liquid
Colour	Clear
Odour	Mild alkali
PH Value	14 (as received)
Boiling point/ boiling range °C	Not ascertained
Flash point	Non flammable
Vapour pressure	Not ascertained
Vapour density	Not ascertained
Density	Not ascertained
Solubility	Soluble in water
Viscosity at 20°C	4.5mPa.s.
Specific gravity at 20°C	1.290 (+/- 0.02)

<b>10. Stability and reactivity</b>	
Stability and possible hazardous reactions	Product is stable. Product reacts violently with acids.
Conditions/ materials to avoid	Do not store or mix with acids. Store away from food stuffs.
Hazardous decomposition	No decomposition if used and stored in accordance with provisions for use

<b>11. Toxicological information</b>	
LD 50test on animals available on certain raw materials in product	
Acute Toxicity	Product is corrosive to all tissues
Local effects	Severe ulceration and scarring may result
Sensitisation	Can cause severe skin and eye irritation
Chronic toxicity	No data available
Long term toxicity	No data available

<b>12. Ecological information</b>	
Possible environmental effects	Dangerous to aquatic life
Behaviour and fate	Soluble in water. Avoid large product spillage from entering waterways
Persistence/ Biodegradability	No data available

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

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<b>14. Transport regulations</b>	
UN Number	1824
Packaging group	II
Classification	Class 8 - Corrosive

<b>15. Regulatory information</b>	
National legislation	Refer to the below Risk and Safety phrase Data
Hazard and safety information	Take usual good care
EEC hazard classification Risk phrases	R21 – Harmful in contact with skin
	R22 – Harmful if swallowed
	R34 – Causes burns
	R41 – Risk of serious damage to eyes
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 urgently with plenty of water and seek medical advice
	S27 – Remove contaminated clothing
	S28 – After contact with skin, wash with plenty of water, rinse with dilute vinegar solution
	S36 – Wear suitable protective clothing
	S37 – Wear suitable gloves (chemical resistant)
	S39 – Wear eye/ face protection

<b>16. Additional information (e.g. special training or restrictions on the products use)</b>	
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.	