

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: LIQUIDET "S"

1. Product and Company identification	
Product Name	LIQUIDET "S"
Product Description	Liquid laundry detergent with Alkaline Boost
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

2. Composition/ Information on ingredients	
Chemical Nature	Clear fluorescent water white liquid
Components contributing to the hazard	Caustic Inorganics
Chemical or generic name of components	Sodium Hydroxide/ Potassium Hydroxide
Concentration range	Low/ Low
VHIGH >60%, HIGH 30-60%, MED 10-29%, LOW 1-9%, VLOW >1%	
Impurities contributing to the hazard	N/A
Classification and hazard labelling	Class 8
Major hazard	Corrosive
UN/ CAS	CAS 1310-73-2/ 1310-58-3
R-Phrases	R21, R22, R34,R41

3. Hazard identification (Summary of most important hazards)	
Hazard category	Corrosive
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	At concentrations recommended for cleaning purposes, no significant effects occur. Not explosive or flammable in liquid form

4. First Aid Measures	
Action to be avoided	Do not induce vomiting
Inhalation	Not applicable, product dispensed automatically
Skin contact	Remove contaminated clothing. Wash skin with large quantities of water and rinse with a dilute solution of vinegar. Obtain medical assistance.
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 and Potassium Hydroxide

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

6. Accidental release measures	
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	Apply a strong solution of vinegar 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 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

8. Exposure controls/ Personal protection	
<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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9. Physical and chemical properties	
Form	Liquid
Colour	Clear fluorescent water white
Odour	Mild
PH Value	10.5 (1% solution)
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	1.060 (+/- 0.02)

10. Stability and reactivity	
Stability and possible hazardous reactions	Product is stable. Product reacts with acids
Conditions/ materials to avoid	Do not store or mix with acids
Hazardous decomposition	No decomposition if used and stored in accordance with provisions for use

11. Toxicological information	
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

12. Ecological information	
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

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

14. Transport regulations	
Packaging group	III
Classification	Class 8 - Corrosive
UN Number	UN1760

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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	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

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.