

## MATERIAL SAFETY DATA SHEET

PRODUCT NAME: LIQUIDET

<b>1. Product and Company identification</b>	
Product Name	LIQUIDET
Product Description	Liquid laundry detergent
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: 011-4661885/073 442 4879

<b>2. Composition/ Information on ingredients</b>	
Chemical Nature	Clear fluorescent water white liquid
Components contributing to the hazard	Nonyl Phenol Ethoxylate
Chemical or generic name of components	Nonyl Phenol Ethoxylate
Concentration range	Medium
VHIGH >60%, HIGH 30-60%, MED 10-29%, LOW 1-9%, VLOW >1%	
Classification and hazard labelling	Class 9
Major hazard	Marine pollutant (mild), Mild Irritant
UN/ CAS	UN3082
R-Phrases	R36, R37, R38, R51

<b>3. Hazard identification (Summary of most important hazards)</b>	
Hazard category	Class 9 – Environmentally hazardous liquid (mild)
Adverse human health affects	Can cause eye/ skin irritation. Harmful if inhaled. Low toxicity if small amounts swallowed incidentally. Prolonged exposure to mist may cause serious adverse effects. Vapour may cause irritation to the upper respiratory tract.
Environmental effects	Moderately toxic to aquatic life
Classification of the chemical product	At concentrations recommended for cleaning purposes, no significant effects occur

<b>4. First Aid Measures</b>	
Action to be avoided	Do not induce vomiting
Inhalation	Not applicable, product dispensed automatically. If inhaled remove patient to well ventilated area
Skin contact	Remove contaminated clothing. Wash skin with large quantities of water, get medical assistance.
Eye contact	Keep eyes open and flush with clean water for at least 30 minutes. Obtain medical assistance
Ingestion	Wash out mouth with water and give 200-300ml of water to drink.

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<b>5. Fire fighting measures</b>	
Extinguishing media	Dry chemical foam, carbon dioxide
Inappropriate distinguishing media	Water may be ineffective on fires
Specific hazards	None
Special equipment for protection	Not applicable

<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	Contain spilled material if possible, pick up with liquid binding material.

<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
Storage	Keep container tightly closed in a dry secure area. Store away from food stuff. 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 fluorescent water white
Odour	Mild
PH Value	7
Boiling point/ boiling range °C	101°C
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	1.020 (+/- 0.02)

<b>10. Stability and reactivity</b>	
Stability and possible hazardous reactions	Product is stable. No dangerous reactions known under conditions of normal use
Conditions/ materials to avoid	Avoid contact with strong acids, strong oxidisers
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	None known
Local effects	Severe eye irritation may result
Sensitisation	Can cause skin and eye irritation
Chronic toxicity & carcinogenicity	Did not cause cancer in laboratory animals
Long term toxicity	No relevant data found

<b>12. Ecological information</b>	
Possible environmental effects	Mildly toxic to aquatic life in concentrate
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

<b>14. Transport regulations</b>	
Packaging group	II
Classification	Class 9 – Marine pollutant

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UN Number	3082
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<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	R36 – Irritating to the eyes
	R37 – Irritating to the respiratory system if inhaled for a prolonged period of time
	R38 – Irritating to the skin
	R51 – Toxic to aquatic organisms
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.