

MATERIAL SAFETY DATA SHEET  
PRODUCT NAME: PERMABRITE FF

<b>1. Product and Company identification</b>	
Product Name	PERMABRITE (FRAGRANCE FREE)
Product Description	Highly active enzyme powder 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

<b>2. Composition/ Information on ingredients</b>	
Chemical Nature	Blend of surfactants, builders and bleaching agents. Product is phosphate and fragrance free.
Components contributing to the hazard	<ol style="list-style-type: none"> <li>1. Sodium Carbonate</li> <li>2. Sodium Metasilicate</li> <li>3. Sodium Perborate</li> </ol>
Concentration range	<ol style="list-style-type: none"> <li>1. High</li> <li>2. Medium</li> <li>3. Low</li> </ol>
VHIGH >60%, HIGH 30-60%, MED 10-29%, LOW 1-9%, VLOW >1%	
Classification and hazard labelling	Class 5.1 Oxidising agent / Xi Irritant
Major hazard	Oxidant/ Irritant
UN/ CAS	UN1479
R-Phrases	R22,26,36,38

<b>3. Hazard identification (Summary of most important hazards)</b>	
Hazard category	5.1 Oxidising agent/ Xi Irritant (mild)
Adverse human health affects	Irritating to the eyes and skin. Could be harmful if inhaled or swallowed.
Environmental effects	None known
Classification of the chemical product	Not classified as dangerous. Good for transport by rail and road.

<b>4. First Aid Measures</b>	
Action to be avoided	Do not induce vomiting
Inhalation	Remove patient from exposure
Skin contact	Wash with large quantities of water
Eye contact	Keep eyes open and flush with clean water for 15 min
Ingestion	Rinse mouth with water and drink 200-300 ml water
Note to physician	Treat symptomatically as for mild alkali detergent

<b>5. Fire fighting measures</b>	
Extinguishing media	Dry chemical, CO2, halox, water spray or std foam

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Inappropriate distinguishing media	Not applicable
Specific hazards	None
Special equipment for protection	Wear self contained breathing apparatus (S.C.B.A)

<b>6. Accidental release measures</b>	
Personal precautions	Avoid eye contact. Do not ingest
Environmental precautions	None
Methods for cleaning up recovery	Flush with water
Neutralisation and disposal of spillage	No neutralisation required

<b>7. Handling and storage</b>	
Observe the usual precautionary measures for handling and storing chemicals	
Handling	Ensure container is properly sealed when not in use. Do not ingest, avoid eye and over exposed skin contact.
Storage	Keep the container tightly sealed in a dry secure area. Check regularly for leakage. Store separate from food stuffs and acid.

<b>8. Exposure controls/ Personal protection</b>	
Control parameters	
Limit values	To be monitored at the work place
Biological standards	Refer to UN and R-Phrase numbers (section 15)
Monitoring procedures	Keep container sealed when not in use
Personal protective equipment	Refer to the S-Phrase data (section 15)
Skin and Body protection	None required in prescribed conditions
Personal hygiene measures	Wash contaminated clothing before storage or re-use

<b>9. Physical and chemical properties</b>	
Form	Powder
Colour	Off white with green specs
Odour	None
PH Value	14 (1% solution)
Boiling point	Not applicable
Decomposition temperature	Not applicable
Flash point	Not applicable
Explosion properties	Product may release oxygen if stored incorrectly.
Vapour pressure	Not applicable
Vapour density	Not applicable
Density	Not applicable
Solubility	Soluble in water
Viscosity at 20C	Not applicable

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Specific gravity at 20C	Not applicable
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<b>10. Stability and reactivity</b>	
Stability and possible hazardous reactions	Product is stable / Oxidant
Conditions/ materials to avoid	Avoid materials : Acids and food stuff
Hazardous decomposition	No decomposition if stored and used 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	Mild irritant
Sensitisation	None known
Chronic toxicity	None known
Long term toxicity	None

<b>12. Ecological information</b>	
Possible environmental effects	No adverse effects expected
Behaviour and fate	Soluble in water. Avoid product spillage from entering waterways
Persistence/ Biodegradability	➤ 95% components are biodegradable in water. Phosphate Free.

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

<b>14. Transport regulations</b>	
Proper shipping name	Oxidising agent
Packaging group	III
UN classification number	UN 1479
Class	5.1

<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	R22 – Harmful if swallowed
	R25 – Toxic if swallowed
	R36 – Irritating to the eyes
	R37 – Irritating to the respiratory system

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	R38 – Irritating to the skin (in extreme cases)
EEC hazard classification Safety phrases	S25 – Avoid contact with the eyes
	S26 – In case of contact with the eyes, rinse immediately with plenty of water
	S28 – After contact with the skin, rinse then wash immediately with plenty of soap and water

**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.