

MATERIAL SAFETY DATA SHEET
PRODUCT NAME: HYPEROX

1. Product and Company identification	
Product Name	Hyperox
Product Description	Peracid Sanitiser
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	Non-foaming broad spectrum peracid based disinfectant
Overview	Corrosive, Oxidising agent - non-flammable, but may contribute Oxygen to fire. Can ignite combustilbe materials. Can decompose on heating, releasing Oxygen. Reacts violently with alkaline products. Do not mix with chlorine products (releasing chlorine gas). Corrosive: Causes eye and skin damage or chemical burns.
Components contributing to the hazard	Organic Peroxides
Component	CAS Number
Peroxyacetic acid <10%	79-21-0
Acetic Acid <10%	64-19-7
Hydrogen peroxide <30%	7722-84-1
Classification and hazard labelling	Class 5.2 Oxidising agent/ Corrosive
Major hazard	Oxidising agent/ Corrosive Heating may cause fire
UN/ CAS	UN3109
R-Phrases	R35, R36/R37/R38, R41

3. Hazard identification (Summary of most important hazards)	
Hazard category	Class 5.2 Oxidising agent/ Corrosive
Adverse human health affects	Can cause severe chemical burns
Environmental effects	Can release oxygen upon heating
Classification of the chemical product	At concentrations recommended for cleaning purposes, no significant effects occur

4. First Aid Measures	
Action to be avoided	Do not induce vomiting
Inhalation	Remove patient from exposure to fresh air Obtain medical attention if serious

MATERIAL SAFETY DATA SHEET
PRODUCT NAME: HYPEROX

Skin contact	Remove contaminated clothing, flush skin with water for 15 minutes Seek medical advice if irritation persists
Eye contact	Rinse immediately, keep eyelids open and flush with clean water for at least 15 minutes Call a physician immediately
Ingestion	Wash out mouth with water and give 200-300ml of water to drink. Seek medical attention

5. <u>Fire fighting measures</u>	
Extinguishing media	Use extinguishing media appropriate for surrounding fire. Cool containers with water jet
Inappropriate distinguishing media	None known
Specific hazards	Product releases oxygen when exposed to heat, contributing to the fire hazard. Containers need to be vented to prevent blowing up under heat.
Special equipment for protection	Use self contained breathing apparatus, protective clothing and rubber gloves

6. <u>Accidental release measures</u>	
Personal precautions	Use personal protective equipment
Environmental precautions	Keep large spills and runoff out of drains and water courses. Small spills can be flushed away with lots of water
Methods for cleaning up recovery	Contain spills with inert absorbent materials like sand (not sawdust). Transfer liquids and solid diking material to suitable containers for disposal
Neutralisation and disposal of spillage	Not applicable

7. <u>Handling and storage</u>	
Observe the usual precautionary measures for handling and storing chemicals	
Handling	Do not ingest, avoid eye and skin contact Ensure only vented caps and original plastic drums are used. Open and handle container with care
Storage	Keep container tightly closed in a dry, ventilated and secure area. Store away from food stuff and out of reach of children. Check containers regularly for leakage and possible distension. Material must be stored in accordance with local rules and legislation

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: HYPEROX

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 an approved respirator, PVC gloves, protective eyewear and clothing
Personal hygiene measures	Wash contaminated clothing before storage and re-use

9. Physical and chemical properties	
Form	Clear liquid
Colour	Colourless
Odour	Pungent vinegar
PH Value	2.8 (1% solution)
Boiling point/ boiling range °C	>100°C
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	1.12 – 1.14

10. Stability and reactivity	
Stability and possible hazardous reactions	Product is stable under normal conditions
Conditions/ materials to avoid	Mix only with water. Avoid strong oxidants, reacts rapidly with organics, chlorinated materials
Hazardous decomposition	Decomposes with heat, releases oxygen

11. Toxicological information	
LD 50test on animals available on certain raw materials in product	
Acute Toxicity	None known
Local effects	In contact with eyes can cause serious damage to eyes, cornea. Ingested can burn mouth and mucus membranes, Irritating to skin
Sensitisation	Strong irritant with temporary whitening of skin
Chronic toxicity	None known
Long term toxicity	None known

MATERIAL SAFETY DATA SHEET
PRODUCT NAME: HYPEROX

12. Ecological information	
Possible environmental effects	Dangerous to aquatic life in high concentrations due to low pH and oxidising potential
Behaviour and fate	Soluble in water. Avoid large product spillage from entering waterways.
Persistence/ Biodegradability	Product is readily biodegradable and does not bio accumulate

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

14. Transport regulations	
Packaging group	II
UN Number Classification	UN3109
Classification	Class 5.2

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	R35 - Causes severe burns
	R36/37/38 – Irritating to the eyes, respiratory system and skin
	R41 – Risk of serious damage to eyes
EEC hazard classification Safety phrases	S2 – Keep out of reach of children
	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 and seek medical advice
	S27 – Remove contaminated clothing
	S28 – After skin contact, wash immediately with plenty of water
	S36/37/39 – Wear suitable gloves, face and eye 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	

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: HYPEROX

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.