

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: METAL CLEANER 546

1. Product and Company identification	
Product Name	METAL CLEANER 546
Product Description	Powder Metal Cleaner
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	Damp Brown Alkaline Powder
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%	
Classification and hazard labelling	Corrosive / Class 8
Major hazard	Severe irritant
UN/ CAS	UN1823/ CAS1310-73-2
R-Phrases	R21, R22, R34, R41

3. Hazard identification (Summary of most important hazards)	
Hazard category	Corrosive/ Class 8
Adverse human health affects	Severe irritant to eyes, skin and if ingested. Can cause severe irritation and chemical burns to tissue and immediate medical attention must be sought following any exposure.
Environmental effects	Corrosive to animal and vegetable tissue
Classification of the chemical product	Handle open container with care Not explosive or flammable

4. First Aid Measures	
Action to be avoided	Do not induce vomiting
Inhalation	Remove patient from exposure to fresh air
Skin contact	Remove contaminated clothing, wash skin well with large volumes of water and obtain medical assistance.
Eye contact	Act quickly. Keep eyes open and flush with clean water for at least 15 minutes. Obtain medical assistance urgently.
Ingestion	Wash out mouth with water and give + 300ml of water to drink. Do not induce vomiting.
Note to the physician	Treat symptomatically as for Sodium 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	None required

6. Accidental release measures	
Personal precautions	Wear the correct protective clothing and equipment to avoid eye and skin contact. Do not ingest or inhale
Environmental precautions	Do not allow product to enter soil, ground and waterways. Dangerous to aquatic life.
Methods for cleaning up recovery	If spillage is still in powder form, sweep and scrape up and discard in disposal container. If the product has come into contact with water, clean the area with water and rinse with a dilute solution of vinegar.
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 after every use and not leaking. Store away from acids.
Storage	Keep container tightly closed in a dry secure area. Store away from acids, 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

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	In abnormal conditions use an approved respirator. Always wear a PVC apron, protective eyewear and Chemical resistant gloves.
Personal hygiene measures	Wash contaminated clothing before storage and re-use

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9. Physical and chemical properties	
Form	Damp Powder
Colour	Brown
Odour	Mild
PH Value	14
Boiling point/ boiling range °C	Not applicable
Flash point	Non flammable
Vapour pressure	Not ascertained
Vapour density	Not ascertained
Density	Not ascertained
Solubility	Soluble in water
Viscosity at 20°C	Not applicable
Specific gravity at 20°C	Not applicable

10. Stability and reactivity	
Stability and possible hazardous reactions	Product is stable Reacts violently with acids
Conditions/ materials to avoid	Do not mix or store 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	Causes severe eye and skin 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 spillage from entering waterways
Persistence/ Biodegradability	The methods for determining the biological degradability are not applicable to inorganic substances.

13. Disposal considerations	
Disposal of chemical product	According to local rules and legislation
Disposal of contaminated packaging	Dispose of waste product in a sanitary landfill

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14. Transport regulations	
Packaging group	II
Classification/ Hazard label	Class 8
UN number	UN 1823 – Sodium Hydroxide Solid

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 (skin and eyes)
	R41 – Risk of serious damage to eyes
EEC hazard classification Safety phrases	S1/2 – Keep locked up and out of reach of children
	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. Seek medical advice
	S27 – Remove contaminated clothing
	S31 – Contact with acids liberates toxic gas

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.