

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: DECALCIFIER/ DEMINIRALISER

1. Product and Company identification	
Product Name	DECALCIFIER/ DEMINIRALISER
Product Description	Chelating descaler for irons
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	Free Flowing White Powder
Components contributing to the hazard	Nitrilotriacetic Acid
Chemical or generic name of components	NTA Na3
Concentration range	Very High
VHIGH >60%, HIGH 30-60%, MED 10-29%, LOW 1-9%, VLOW >1%	
Classification and hazard labelling	Not Classified as Hazardous
Major hazard	Mild Irritant, Potential Carcinogen006E
UN/ CAS	CAS18662-53-8
R-Phrases	R36

3. Hazard identification (Summary of most important hazards)	
Hazard category	Xi- Irritant
Adverse human health affects	Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. CARCINOGENIC EFFECTS: Classified 2B (Possible for human.) by IARC. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition
Environmental effects	None Known
Classification of the chemical product	No significant effect occur if used as per recommended manual cleaning purposes

4. First Aid Measures	
Action to be avoided	Do not induce vomiting
Inhalation	Remove patient from exposure to an area with fresh air if required
Skin contact	Immediately remove contaminated clothing and flush with clean water
Eye contact	Flush eyes with clean running water for 15 minutes. Seek medical assistance.

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Ingestion	Wash out mouth with clean water. Give plenty of water to drink. Do not induce vomiting. If it occurs, drink plenty of water
Note to physician	Treat symptomatically as for strong acid and irritant

5. Fire fighting measures	
Extinguishing media	Slightly flammable in presence of high heat
Inappropriate extinguishing media	Not Applicable
Specific hazards	Not Applicable
Special equipment for protection	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

6. Accidental release measures	
Personal precautions	Avoid contact. Do not ingest
Environmental precautions	Do not allow large spills to enter waterways.
Methods for cleaning up recovery	Flush with water
Neutralisation and disposal of spillage	No special precautions required

7. Handling and storage	
Observe the usual precautionary measures for handling and storing chemicals Avoid eye contact. Do not ingest.	
Handling	Ensure container is not leaking.
Storage	Keep container tightly closed in a dry secure area out of reach of children. Materials must be stored in accordance with local rules and legislation.

8. Exposure controls/ Personal protection	
Control Parameters	
Limit values	Not applicable
Biological standards	Refer to the Risk and Safety Phrase data
Monitoring procedures	Keep container closed when not in use
Personal protection	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Personal hygiene measures	Wash contaminated clothing before storage and re-use. Refer to S-Phrase data in section 15

9. Physical and chemical properties
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Form	Powder
Colour	White
Odour	None
PH Value	Not available
Boiling point	Not available
Flash point	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable
Density	Not applicable
Solubility	Soluble in water
Viscosity at 20°C	Not applicable

10. Stability and reactivity

Stability and possible hazardous reactions	Product is stable
Conditions/ materials to avoid	Oxidising agents
Hazardous decomposition	Not known

11. Toxicological information

LD 50test on animals available on certain raw materials in product	
Acute Toxicity	Irritant to skin, eyes and respiratory system
Local effects	Irritant to skin, eyes and respiratory system
Sensitisation	Not known
Chronic and Long term toxicity	CARCINOGENIC EFFECTS: Classified 2B (Possible for human.) by IARC. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells.

12. Ecological information

Possible environmental effects	No adverse effects and ecological problems expected when the product is handled and used with due care
Behaviour and fate	Soluble in water
Persistence/ Biodegradability	Not known

13. Disposal considerations

Disposal of chemical product	According to the local rules and legislation
Disposal of contaminated packaging	Recommended cleaning agent is water

14. Transport regulations

Packaging group	Not applicable
UN	Not applicable
Class / Category	Not classified as Hazardous for Transport

15. Regulatory information

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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
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 food stuffs
	S18 – Handle and open container with care
	S25 – Avoid contact with the eyes
	S26 – In case of eye contact flush with 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.