

MATERIAL SAFETY DATA SHEET
PRODUCT NAME: D-STAIN

| 1. Product and Company identification | |
|----------------------------------------------|----------------------------------------------------------------|
| Product Name | D-STAIN |
| Product Description | Crockery destainer |
| 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 | Blend of surfactants and bleaching agents |
| Components contributing to the hazard | 1. Sodium Perborate 2. Sodium Metasilicate |
| Chemical or generic name of components | Not applicable |
| Concentration range | 1. High 2. Low |
| 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, R26, R36, R38 |

| 3. Hazard identification (Summary of most important hazards) | |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard category | Class 5.1 Oxidising Agent/ XI Irritant (mild) |
| Adverse human health affects | Irritating to eyes and skin. Could be harmful if inhaled or swallowed. |
| Environmental effects | None known |
| Classification of the chemical product | Not classified as dangerous at concentrations recommended for cleaning purposes, no significant effects occur if used in accordance to product label. |

| 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 immediately with water, followed by soap and water. |
| Eye contact | Immediately flush open eyes with copious amounts of clear water for at least 15 minutes. |
| Ingestion | Wash out mouth with water and give 200-300ml of water to drink. Do not induce vomiting. |
| Note to physician | Treat symptomatically as for mild alkali detergent |

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| 5. <u>Fire fighting measures</u> | |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Extinguishing media | Dry chemical, CO2, halox, water spray or standard foam |
| Inappropriate extinguishing media | Organic Compounds |
| Specific hazards | Product is an active oxidising, peroxygen compound. During a fire it may decompose yielding oxygen, this may promote further combustion. |
| Special equipment for protection | Wear self contained breathing apparatus (S.C.B.A) |

| 6. <u>Accidental release measures</u> | |
|----------------------------------------------|------------------------------------------------------------------------|
| 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. Follow standard waste disposal procedures. |

| 7. <u>Handling and storage</u> | |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Observe the usual precautionary measures for handling and storing chemicals | |
| Handling | Do not ingest, avoid eye and prolonged skin contact Ensure container is properly closed and not leaking |
| Storage | Keep container tightly closed in a dry secure area. Store away from acids and food stuff, and sources of ignition or flammable substances. Check containers regularly for leakage and possible distension. Material must be stored in accordance with local rules and legislation |

| 8. <u>Exposure controls/ Personal protection</u> | |
|---------------------------------------------------------|------------------------------------------------------|
| <u>Control Parameters</u> | |
| Limit values | To be monitored at the work place |
| Biological standards | Refer to UN and R-Phrase numbers listed |
| Monitoring procedures | Keep container closed when not in use |
| Personal protective equipment | Refer to the S-Phrase data |
| Protective clothing | None required |
| Personal hygiene measures | Wash contaminated clothing before storage and re-use |

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| 9. <u>Physical and chemical properties</u> | |
|---------------------------------------------------|------------------|
| Form | Powder |
| Colour | Off white |
| Odour | None |
| PH Value | 14 |
| Boiling point | Not applicable |
| Flash point | Not applicable |
| Decomposition temperature | 60°C |
| Explosive properties | Oxidant |
| Density | Not applicable |
| Solubility | Soluble in water |
| Viscosity at 20°C | Not applicable |
| Specific gravity at 20°C | Not applicable |

| 10. <u>Stability and reactivity</u> | |
|--------------------------------------------|-------------------------------------------------------------------------------------------------|
| Stability and possible hazardous reactions | Product is stable |
| Conditions/ materials to avoid | Oxidant, avoid acids and food stuff. Keep away from sources of ignition and flammable products. |
| Hazardous decomposition | No decomposition if stored and used in accordance with provisions for use |

| 11. <u>Toxicological information</u> | |
|---------------------------------------------------------------------|---------------|
| LD 50 test 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 known |

| 12. <u>Ecological information</u> | |
|------------------------------------------|----------------------------------------------------------|
| Possible environmental effects | No adverse effects |
| Behaviour and fate | Soluble in water. Avoid product from entering waterways. |
| Persistence/ Biodegradability | Product is expected to readily biodegrade. |

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

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| 14. Transport regulations | |
|----------------------------------|----------------------------------------------------|
| Proper shipping name | OXIDISING SOLID, N.O.S. (Sodium Perborate Mixture) |
| Packaging group | II |
| UN classification number | UN1479 |
| Classification | 5.1 |

| 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 | R22 – Harmful if swallowed |
| | R25 – Toxic if swallowed |
| | R36 – Irritating to the eyes |
| | R37 – Irritating to the respiratory system |
| | R38 – Irritating to the skin |
| 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 and seek medical advice. |
| | S28 – After contact with the skin, wash immediately with plenty of 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. | |