

MATERIAL SAFETY DATA SHEET
PRODUCT NAME: EMULSIFIER CONCENTRATE

| 1. Product and Company identification | |
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| Product Name | EMULSIFIER CONCENTRATE |
| Product Description | Emulsifier Concentrate for Dilution with Petroleum Solvents |
| 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/ 073 442 4879 |

| 2. Composition/ Information on ingredients | |
|---|---------------------------------|
| Chemical Nature | Clear Orange/Brown Liquid |
| Components contributing to the hazard | Ethylene Glycol Monobutyl Ether |
| Chemical or generic name of components | EB |
| Concentration range | High |
| VHIGH >60%, HIGH 30-60%, MED 10-29%, LOW 1-9%, VLOW >1% | |
| Classification and hazard labelling | Class 9 |
| Major hazard | Environmental Hazard |
| UN/ CAS | UN3082 |
| R-Phrases | R21, R22 |

| 3. Hazard identification (Summary of most important hazards) | |
|---|--|
| Hazard category | 9 |
| Adverse human health affects | Irritant to eyes, skin and if ingested |
| Environmental effects | May have negative environmental effects if released in concentrate |

| 4. First Aid Measures | |
|--|---|
| <i>Note to first aiders : wear PVC gloves and eye protection when handling contaminated clothing</i> | |
| Action to be avoided | Do not induce vomiting |
| Inhalation | May cause irritation and damage to the respiratory tract. |
| Skin contact | Remove contaminated clothing, wash skin well with large volumes of water. |
| Eye contact | Act quickly, keep eyes open and flush with clean water for 15 minutes. Obtain medical assistance urgently. |
| Ingestion | Give +300ml of clean water to drink to dilute the material inside the stomach. Obtain medical assistance urgently. |
| Note to physician | Treat symptomatically as for Solvent |

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| 5. <u>Fire fighting measures</u> | |
|---|----------------|
| Extinguishing media | Non flammable |
| Inappropriate distinguishing media | Not applicable |
| Specific hazards | None |
| Special equipment for protection | None required |

| 6. <u>Accidental release measures</u> | |
|--|--|
| Personal precautions | Wear protective clothing and equipment to prevent skin, eye contact and ingestion. |
| Environmental precautions | Do not allow product to enter soil, ground and waterways. Dangerous to aquatic life. |
| Methods for cleaning up recovery | Mechanically or liquid binding material i.e. sand |
| Neutralisation and disposal of spillage | Apply a strong solution of vinegar and remove to waste disposal area |

| 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 container is properly closed and not leaking |
| Storage | Keep container tightly closed in a dry secure area. Store away from acids and food stuff. 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> | |
|---|---|
| Control Parameters | |
| 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 PVC gloves, protective eyewear, approved respirator and an apron |
| Personal hygiene measures | Wash contaminated clothing before storage and re-use |

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| 9. <u>Physical and chemical properties</u> | |
|---|-------------------------|
| Form | Liquid |
| Colour | Clear orange/ brown |
| Odour | Faint traces of solvent |
| PH Value | 7-7.5 |
| Boiling point | 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 | 4.5 mPa.s |
| Specific gravity at 20°C | Not ascertained |
| % Volatile by volume | Not ascertained |

| 10. <u>Stability and reactivity</u> | |
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| Stability and possible hazardous reactions | Product is stable. |
| Conditions/ materials to avoid | Follow standard storage procedure for chemical as per label |
| Hazardous decomposition | No decomposition if stored and used in accordance with provisions for use. |

| 11. <u>Toxicological information</u> | |
|--|--|
| LD 50test on animals available on certain raw materials in product | |
| Acute Toxicity | Not known |
| Local effects | Not known |
| Sensitisation | May cause severe eye and skin irritation |
| Chronic toxicity | No data available |
| Long term toxicity | No data available |

| 12. <u>Ecological information</u> | |
|--|---|
| Possible environmental effects | Dangerous to aquatic life |
| Behaviour and fate | Soluble in water. Avoid product spillage from entering waterways. |
| Persistence/ Biodegradability | No data available |

| 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 | |
|----------------------------------|---------|
| Packaging group | III |
| Un Group | 3082 |
| Hazardous classification | Class 9 |

| 15. Regulatory information | |
|--|---|
| National legislation | Contact local authorities. Refer to the below Risk and Safety Phrases Data |
| Hazard and safety information | Take usual good care |
| EEC hazard classification Risk phrases | R21 – Harmful in contact with eyes R22 – Harmful if swallowed |
| EEC hazard classification Safety phrases | S7 – keep container tightly closed S13 – Keep away from food, drink and animal feed S18 – Handle and open container with care S25 – Avoid contact with the eyes S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S27 – Remove contaminated clothing S28 – After contact with skin, wash with plenty of water S36 – Wear suitable protective clothing |

| 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. | |