**Material Safty Data Sheet**

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| **NAME**  **:** **SEMCA CLEANING EQUIPMENT TEL: 012-3270777**  **ADRESS : SOUTTER STREET 492 FAX: 012-3270776**  **PRETORIA WEST**  **0183** |
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| 1. **Product Information** |
| Trade Name : ENGINE CLEANER RED |
| Chemical Family : DETERGENT |
| Chemical Name : MEDIUM DUTY SOLVENT DETERGENT TO SABS 1344 |
| Synonyms : |
| Chemical Abstract No : - |
| NIOSH NO : - |
| Hazchem Code : 6 III |
| Sin no : 2369 |
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| 1. **Composition :** |
| Hazardous Components : ETHYLENE GLYCOL MONOBUTYL ETHER |
| EEC Classification : - |
| R Phases : R 20 , R36/38 |
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| 1. **Hazards Identification** |
| Main Hazard : IRRITATION |
| Flammability : NON-FLAMMABLE |
| Chemical Hazards : NONE |
| Biological Hazard : NONE |
| Reproductive Hazards : NONE |
| Eye Effects – Eyes : EXPOSURE TO MIST MAY CAUSE IRRITATION |
| Health Effects – Skin : POSSIBLE DEFATTING OF UNPROTECTED SKIN WHEN USING UNDILUTED |
| Health Effects – Ingestion : IRRITATION OF MOUTH , THROAT AND DIGESTIVE TRACT |
| Health Effects – Inhalation : EXPOSURE TO MIST MAY CAUSE IRRITATION TO NOSE , THROAT &  RESPIRATORY TRACT |
| Carcinogenicity : NONE |
| Mutagenicity : NONE |
| Neurotoxicity : NONE |
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| 1. **First Aid Measures** |
| Product in eye : FLUSH EYE WITH WATER FOR 15 MINUTES |
| Product on Skin : FLUSH SKIN WITH WATER FOR 15 MINUTES |
| Product Ingested : FLUSH MOUTH OUT WITH WATER AND SEEK MEDICAL ADVICE IMMEDIATELY |
| Product Inhaled : REMOVE FROM EXPOSURE |
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| 1. **Fire Fighting Measures** |
| Extinguishing Media : NON-FLAMMABLE |
| Special Hazards : NONE |
| Protective Clothing : NONE |
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| 1. **Accidental Release Measures** |
| Personal Precautions : PRODUCT CAN CREATE SLIPPERY CONDITIONS UNDERFOOT |
| Environmental Precautions : NONE |
| Small Spills : WASH AWAY WITH LARGE QUANTITIES OF WATER |
| Large Spills : WASH AWAY WITH LARGE QUANTEIES OF WATER |
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| 1. **Handling and Storage** |
| Suitale Material : STEEL/POLYETHYLENE CONTAINERS |
| Handling/Storage Precautions : COOL AREA WITH OTHER DETERGENTS |
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| 1. **Exposure Controles/Personal Pretections** |
| Occupation Exposure Limits : ETHYLENE GLYCOL MONOBUTYL ETHER  OEL 25ppm / 120mg/m |
| Engeneering Control Measures :NONE |
| Personal Protection – Respiratory : NONE |
| Personal Protection – Hand : PVC/RUBBER GLOVES |
| Personal Protection – Eye : CHEMICAL FACE SHIELD / GOGGLES |
| Personal Protection – Skin : NONE |
| Other Protection : NONE |
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| 1. **Physical and Chemical Properties :** |
| Appearance : RED LIQUID |
| Odour : TYPICAL GLYCOL ETHER |
| PH : 10.5 – 12.5 |
| Boiling Point : >100 C |
| Melting Point : - |
| Flash Point : NONE |
| Flammability : NON-FLAMMABLE |
| Autoflammability : NONE |
| Explosive Properties : NONE |
| Oxidizing Properties : NONE |
| Vapour Pressure : - |
| Density : 1,03 |
| Solubility – Water : HIGHLY SOLUBLE |
| Solubility – Solvent : FORMS A WHITE EMULSION |
| Solubility – Coefficient : - |
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| 1. **Stability and Reactivity** |
| Conditions to avoid : NONE |
| Incompatible Materials : NONE |
| Hazardous Decomposition Products : NONE |

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| 1. **Toxicological Information :** |
| Acute Toxicity : NO SPECIFIC DATA AVAILABLE |
| Chronic Toxicity : NO SPECIFIC DATA AVAILABLE |
| Carcinogenicity : NON-CARCINOGENTIC |
| Mutagenicity : NONE |
| Neurotoxicity : NONE |
| Reproductive Hazards : NONE |
| Skin and Eye Contact : POSSIBLE SKIN SENSITISATION |
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| 1. **Ecological Information** |
| Aquatic Toxicity – Fish : NON-TOXIC |
| Aquatic Toxicity – Daphnia : NON-TOXIC |
| Aquatic Toxicity – Algae : NON-TOXIC |
| Biodegradability : - |
| Bio-Accumulation : WILL NOT OCCUR |
| Mobility : PRODUCT WILL DISOLVE RAPPIDLY IN WATER |
| German wgk : - |
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| 1. **Disposal Consideraions** |
| Disposal Methods : INCENERATION OR CONTROLLED LANDFILL ACCORDING TO LOCAL REGULATIONS |
| Disposal of Packaging : CONTAINER SHOULD BE CLEAN AND RECYCLED |
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| 1. **Transport Information** |
| UN No : - |
| Substance Identity no : 2369 |
| ADR/RID Class : 6 |
| ADR/RID Item no : - |
| ADR/RID Hazard Identity no : III |
| IMDG : Shipping Name - |
| IMDG : Class 6.1 |
| IMDG : Packaging Group II |
| IMDG : Marine Pollutant - |
| IMDG : EMS No : - |
| IMDG : MFAG Table No : - |
| IATA : Shipping Name - |
| IATA : Class - |
| IATA : Subsidiary Risk(s) - |
| ANDR : Class - |
| UK : Description - |
| UK : Enmergency Action Class - |
| UK : Classificaton - |
| Tremcard No : - |

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| 1. **Regulatory Information** |
| EEC Hazard Classification : IRRITATION/HARMFULL |
| Risk Phases : R20 , R36 , R38 |
| Safety Phases : S2 , S24 , S25 , S26 |
| National Legislation : NONE |
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| 1. **Other Information** |
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