

Contact Information:

e-Mail: sales@sapolichem.co.za

Telephone: (011) 918 2955

Facsimile: (011) 918 2956

REG NO. 2002/015336/07

VAT NO. 4220199527

P-AF 100 ANTIFREEZE **READY TO USE:50/50**

Material Safety : Data Sheet

Section I - Chemical Product and Company Identification

| | | |
|--------------------------|---|---|
| Product Name/ Trade Name | P-AF 5050 | Code: PAF0000 |
| Supplier | S.A. Polichem, Unit 22A, Anderbolt Industrial Area 78 Craig Road Boksburg | P.O. BOX 16145 ATLASVILLE 1465 |
| Chemical Name | Anti-freeze | In case of Emergency: |
| Chemical Family | Glycols | +27 83 508 0724 |
| Chemical Formula | Formulated chemical | |
| Manufacturer | S.A. Polichem, 22A, Anderbolt Industrial Area 78 Craig Road Boksburg | Material Uses: Engine cooling & anti-boil. |

Section II - Composition and Information on Ingredients

| Substance Name | CAS # | % by Weight | TVL/PEL | LC ₅₀ /LD ₅₀ |
|--|-----------------|--------------------|------------|------------------------------------|
| Surfactants Mono Ethylene glycol | N/A 107-21-1 | 0.1- 0.3 50 -55 | N/A N/A | N/A N/A |

Section III - Hazards Identification

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| Chronic Effects | Can lead to liver and kidney damage, dermatitis can be caused by prolonged contact with skin. |
| Inhalation | Vapours may cause irritation of throat, nose and respiratory system. |

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| Ingestion | Harmful if swallowed, it will cause irritation to mouth, throat, oesophagus and stomach. Symptoms of nausea, vomiting and diarrhoea. Approximately 100ml can be fatal. |
| Skin | Repeated exposure to skin could cause irritation and dermatitis |
| Eyes | Exposure to eyes could cause irritation and other serious issues if not treated. |

Section IV - First Aid Measures

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| Eye Contact | Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Finish by rinsing thoroughly with running water to avoid possible infection. |
| Skin Contact | Rinse with water, no medical attention needed. |
| Hazardous Skin Contact | Prolonged direct contact with skin not advisable. |
| Inhalation | No additional information. |
| Hazardous Inhalation | No additional information. |
| Ingestion | Do NOT induce vomiting unless directed to do so by medical personnel. Call a physician immediately. |
| Hazardous Ingestion | No additional information. |

Section V - Fire and Explosion Data

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| Flammability of the Product | Non-flammable. |
| Auto-Ignition Temperature | N/A |
| Flash Points | 125 (IP 36), °C |
| Flammable Limits | N/A |
| Products of Combustion | N/A |
| Fire Hazards in Presence of Various Substances | N/A |
| Explosion Hazards in Presence of Various Substances | Non-explosive. |
| Fire Fighting Media and Instructions | N/A |
| Special Remarks on Fire Hazards | Non-combustible. |
| Special Remarks on Explosion Hazards | No additional remark. |

Section VI - Accidental Release Measures

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| Small Spill | Dilute with water and mop up or absorb with an inert dry material and place in an appropriate waste disposal container. |
| Large Spill | Absorb with DRY earth, sand or other non-combustible material. Prevent entry into sewers, basements or confined areas; dike if needed. |

Section VII - Handling and Storage

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| Handling | The usual precautions for handling chemicals should be observed. |
| Storage | No special storage requirements. |

Section VIII - Exposure Controls/Personal Protection

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| Engineering Controls | Product does not contain relevant quantities of materials with exposure values that have to be monitored. |
| Personal Protection | Overalls. Gloves. |
| Personal Protection in Case of a Large Spill | Splash goggles. Overalls. Boots. Gloves. |
| Exposure Limits | Very toxic by swallowing. |

Section IX - Physical and Chemical Properties

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|-----------------------------------|--|--------|---------------------|
| Physical state and appearance | Pale yellow Liquid. | Odour | Slight |
| Molecular Weight | Not applicable. | Taste | No known data. |
| PH (A 50% v/v solution in water)) | 6-8 (solution in water) | Colour | Pale yellow liquid. |
| Boiling/ Condensation Point | 169.4 (ASTM D1120), °C | | |
| Melting/Sublimination Point | To be advised. | | |
| Critical Temperature | N/A | | |
| Specific Gravity | 1.030 – 1.100 (at 15°C) | | |
| Vapour Pressure | 0.08 (mbar at 20°C) | | |
| Vapour Density | N/A | | |
| Volatility | No known data. | | |
| Odour Threshold | N/A | | |
| Evaporation rate | No known Data. | | |
| Viscosity | N/A | | |
| Water/Oli Dist. Coeff. | The product is much more soluble in water. | | |
| Solubility | Total in water. | | |

Section X - Stability and Reactivity Data

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| Stability | The product is stable. |
| Instability Temperature | No known data. |
| Conditions of Instability | No known data. |
| Incompatibility with Various Substances | Do not mix Polichem Anti-Freeze with other blends of Anti-Freeze, as this can lead to loss of corrosion protection. |
| Corrosivity | Non-corrosive for metals. |
| Special Remarks on Reactivity | N/A |
| Special Remarks on Corrosivity | N/A |

Section XI - Toxicological Information

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| Routes of Entry | Eye contact. Inhalation. Ingestion. |
| Toxicity to Animals | Contains ethylene Glycol, which is considered toxic. |
| Chronic Effects on Humans | N/A |
| Other Toxic Effects on Humans | Slightly hazardous in case of skin contact (irritant), of eye contact (irritant) |
| Special Remarks on Toxicity to Animals | Contains ethylene Glycol, which is considered toxic. |

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| Special Remarks on Chronic Effects on Humans | No additional remark. |
| Special Remarks on Other Toxic Effects on Humans | No additional remark. |

Section XII - Ecological Information

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| Ecotoxicity | Not determined. |
| Bio degradability | Not determined. |
| Bio accumulation | Not determined. |
| Toxicity of the Products of Biodegradation | Not determined. |
| Degradation | Not determined. |

Section XIII - Disposal Considerations

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| Waste Information | Waste must be disposed of in accordance with Environmental Conservations Act 73 of 1989. |
| Waste Stream | Do not re-use containers. Puncture all plastic containers. Flatten all metal containers. Shred all bags. |

Section XIV - Transport Information

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| ADR Classification | Not controlled under ADR of the EEC. |
| IMDG Classification | 000000 |
| Subsidiary Risk | None. |
| CEFIC Tremcard | **** |
| HS Code | 38200000 |
| Special Provisions for Transport | Not classified as hazardous for transport. |

Section XV - Other Regulatory Information and Pictograms

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|---|---------------------|---|
| International Regulations List | Product not listed | |
| Other Regulations | TSCA | |
| Other Classifications | N/A | |
| Hazardous Material Information System (USA) | Health Hazard | |
| | Fire Hazard | 0 |
| | Reactivity | 0 |
| | Personal Protection | |

Section XVI - Other Information

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| References | |
| Other Special Considerations | This MSDS is drafted in accordance with S.A. Occupational and Safety Act 85/1993, however, the product when used as directed, contains less than 10% of the hazardous constituents declared. At use concentrations therefore, the product is considered completely non-hazardous. |
| Information Contact | TOMEK LUBASINSKI +27 83 508 0724 |

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