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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: +27 83 508 0724
Chemical Family	Glycols	
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	N/A	0.1- 0.3	N/A	N/A
Mono Ethylene glycol	107-21-1	50 -55	N/A	N/A

Section III - Hazards Identification

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.

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

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

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

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

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

Section VIII - Exposure Controls/Personal Protection

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

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/Sublimation 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

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

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.

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

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

Section XIII - Disposal Considerations

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

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

Section XV - Other Regulatory Information and Pictograms

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.

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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