



Manufacturers & Suppliers of Industrial, Household & Specialised Chemicals

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## Technical Data Sheet

### P-AF 100 RTU (50/50)

#### Section 1 – Product Information

PRODUCT NAME	P-AF 100 Antifreeze (prediluted)	PH	7 - 9
CHEMICAL CATEGORY	Antifreeze	FOOD GRADE	No
CHEMICAL TYPE	Formulated solvent	ODOR	Slight chemical odour
VISCOSITY	Thin Liquid	COLOUR	Yellow
FLAMMABILITY	Non-Flammable	ACTIVE INGREDIENT	Mono Ethylene Glycol

#### Section 2- Product Description

**P-AF 100 Ready to Use** Antifreeze and Coolant features Organic Acid Technology that guarantees lifetime protection for as long as you own your vehicle. The inhibitors will provide maximum protection against damaging rust and corrosion in all automobiles, mechanical equipment and all trucks worldwide, regardless of make, model or original antifreeze Colour.

**P-AF 100 Ready to Use** Antifreeze and Coolant is efficient, provided that a complete cooling system flush and fill is performed, and specified maintenance allowed. This product is formulated to be used in all heavy-duty equipment, machinery, all makes of automobile's trucks and buses. This product also features an advanced **Phosphate-free** and **Silicate-free** advanced formulation.

**Variants:** P-AF 100 is also available in **Multipurpose** prepared dilution as well as a long-life full-strength **P-AF 100 Concentrate**.

#### Section 3- Physical & Technical Characteristics

PROPERTY	METHOD OF TESTING	CHARACTERISTIC
Freezing point of 50%	ASTM D1177	-37
Freezing point of 25%	ASTM D1177	-12.0
Density at 15° C	ASTM D1122	1.118
Foaming		
Foam volume, ml	ASTM D1881	20
Time for foam to collapse, sec	ASTM D1881	0
pH	ASTM D1287	7.4
Colour		yellow
Boiling point, ° C	ASTM D1120	169.4
Ash content, % (m/m)	ASTM D1119	0.16
Water content, % (v/v)	ASTM D1123	<0.001
Flash point (IP 36), ° C		125
Reserve alkalinity, ml of 0.1 mol/dm <sup>3</sup> of HCl	ASTM D1121	5.2
Corrosiveness		
Mass loss per strip, mg	ASTM D1384	
Copper	ASTM D1384	0.1
Solder	ASTM D1384	1.2
Brass	ASTM D1384	2.0
Steel	ASTM D1384	0.4
Cast iron	ASTM D1384	3.0
Cast aluminium	ASTM D1384	0.01

## Section 4- Directions for Use

Drain and flush the cooling system with clean water or radiator flush; make sure that there are no leaking hoses and that the drain valve is closed. This P-AF 100 preparation is already diluted 50/50. Fill up the radiator straight from the bottle.

NB: Boiling point is 170°C. Protects down to -36.5°C and boiling up to 170°C. Mixture 25% protects down to -12°C

## Section 5- Dilution and Temperature Range

P-AF 100 Concentrate	Dilute as required	Temperature Range Protection	
	50/50 or 40/60 ratios	(MIN) Freezing: down to	(MAX) Boiling: up to
	50/50	-36.5°C	170°C
	40/60	-24°C	110°C
P-AF 100 Variant	Pre-Diluted to	Temperature Range Protection	
P-AF 100 RTU	50/50	(MIN) Freezing: down to	(MAX) Boiling: up to
		-36.5°C	170°C

## Section 6- Performance Standards

**P-AF 100** Concentrate Antifreeze exceeds the requirements of most European and International Standards, including:

ASTM D3306	ASTM D 4985	SAE J 1034	BS 6580 (1992)
AFNOR NF R15-601*	FFV Heft R443	CUNA NC 956-16	JIS K 2264*
(*with exception of reserve alkalinity)		UNE 26361-88	NATO S 759

**P-AF 100** Concentrate Antifreeze also meets the performance requirements of the following **OEM** specifications:

CHRYSLER MS 9176	VAG TL 774F	MACK 014GS 17004
CUMMINS 85T8-2 & 90T8-4	VOLVO	MAN 248, 324 (SNF) & B&W D 36 5600
JOHN DEERE H 24 B1 & C1	RENAULT 41-01-001	GM 1899 M, US 6277 M & OPEL GM QL 130100
LEYLAND TRUCKS LTS 22 AF 10	MERCEDES MB 325.3	FORD ESE M97B49-A, WSS-M97B44-D & ESD M97 B49-A
*** Above performance requirements are presented as per European additive manufacturer.		

## Section 7- Packaging and Product Code Information

SIZE	DESCRIPTION	STOCK ITEM	PRODUCT CODE	PALLET CONFIGURATION	TRUCK LOAD
1L	Plastic bottle	Yes	PAF50001	n/a	n/a
5L	Plastic container	Yes	PAF50005	144 Units	720
4x5L	Plastic container	Yes	PAF5040005	144 Units	720
20L	Plastic container	Yes	PAF50020	32 Units	640
208L	Plastic drum	Yes	PAF500208	4 Units	832

## Section 8- Product Barcode Information

PACK SIZE	BARCODE	PACK SIZE	BARCODE
1L		4x5L	
12 x 1L		20L	
5L		208L	

## Section 9- Quality and Standards

	TESTING SPECIFICATION	n/a
	NRCS DISINFECTANT REGISTRATION NUMBER	n/a
	ADDITIONAL CERTIFICATIONS OR STANDARDS	No
	MANUFACTURED BY ISO 9001:2015 REGISTERED FIRM	

## Section 10- Safety and Precautions

	DESCRIPTION	PRECAUTION
<b>1</b>	Contact with skin	Avoid contact with skin. Recommended to wear gloves. Rinse well with running water after contact with skin.
<b>2</b>	Contact with eyes	Avoid contact with eyes. Wear goggles. For accidental eye contact, rinse with plenty of water for a minimum of 2 minutes, if irritation persists, refer to material safety data sheet and seek medical attention.
<b>3</b>	Inhalation	Avoid inhalation. Wear safety respirator mask when handling large quantities and use in a well-ventilated area.
<b>4</b>	If swallowed	Do not ingest. Extremely toxic to animals and humans. In case of accidental ingestion, do not induce vomiting! Get medical attention immediately.
<b>5</b>	Product storage & Shelf life	Store in a sealed container, away from heat and direct sunlight and at less than 35°C. Store away from foodstuffs. Shelf life for up to 2 years if kept at temperatures of less than 35°C.
<b>6</b>	Other	Do not mix with other chemicals. <b>KEEP AWAY FROM CHILDREN.</b>
<b>7</b>	Disclaimer of liability	We have drawn upon sources, which we consider reliable, for the information contained in this document. The correctness of the information is not guaranteed. The conditions or methods of use, storage, handling or disposal of this product are outside our control. For this reason, we assume no responsibility, and expressly deny any liability for loss, damages or expenses that could result from handling, storage, usage or disposal of the product. This document was prepared for this product and may only be used with it.

## Section 11- Labelling Iconography



Irritant

