

HPF

REFERENCES

Ocular tolerance and efficacy of short-term tamponade with double filling of polydimethylsiloxane and perfluoro-n-octane

Zenoni S., Romano M. R., Palmieri S., Comi N., Fiorentini E., Fontana P.
Clinical Ophthalmology 2011; 5: 443-449

Pars plana vitrectomy alone for the management of pseudophakic rhegmatogenous retinal detachment with only inferior breaks

Martinez-Castillo V. J., Garcia-Arumi J., Boixadera A.
Ophthalmology 2016; 123: 1563-1569



AL.CHI.MI.A. S.R.L.
VIALE AUSTRIA, 14
35020 - PONTE SAN NICOLÒ (PD) - ITALY

+39 049 89.62.074
+39 049 89.62.064

+39 049 89.62.071

WWW.ALCHIMIASRL.COM
INFO@ALCHIMIASRL.COM

ophthalmic surgery

ALCHIMIA

HPF8 & HPF10

THE MOST CONTROLLED HIGH PURITY
PERFLUOROCARBONS



PURE



SAFE



BIOCOMPATIBLE



CHEMICALLY CONTROLLED



CYTOTOXICITY TESTED

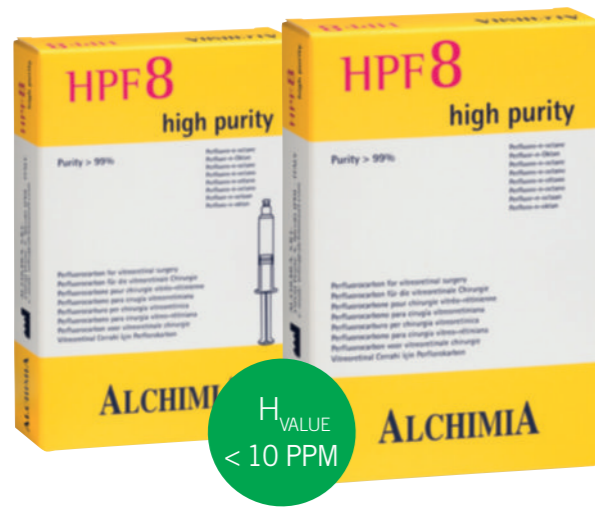


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HPF8 AND **HPF10** ARE HIGHLY SAFE MEDICAL DEVICES CONTROLLED BY MEANS OF SOPHISTICATED CHEMICAL METHODS AND WHOSE SAFETY IS CONFIRMED BY CYTOTOXICITY TEST ON TWO CELL LINES.

AFTER **HPF8**, LONG-TERM TAMPONADE WITH OPHTHALMIC GAS IS INDICATED. AFTER **HPF10**, LONG-TERM TAMPONADE WITH SILICONE OIL IS INDICATED.

ADVANTAGES	SPECIFICATIONS	CHARACTERISTICS	SPECIFICATIONS	ADVANTAGES
	1.79	DENSITY	1.94	Few bubbles
Stable in laser and cryo-applications	110°C	BOILING POINT	141°C	Stable in laser and cryo-applications
Better visualization	From 1.29 to 20°C	REFRACTIVE INDEX	From 1.31 to 20°C	
Easy to remove	0.8 cSt	VISCOSITY	2.4 cSt	
Quick evaporation	56 mmHg	VAPOUR PRESSURE	13 mmHg	
PERFLUORO-N-OCTANE IS EASIER TO USE WITH GAS PROCEDURES		PERFLUORODECALIN IS EFFICIENT ON DRASTIC CASES WITH FURTHER SILICONE OIL TAMPONADE		

high purity **HPF8**

high purity **HPF10**

INGREDIENT	100% FLUORINATED PERFLUORO-N-OCTANE	100% FLUORINATED PERFLUORODECALIN
BACTERIAL ENDOTOXINS	< 0,5 EU/ml	
SHELF-LIFE	36 MONTHS	
REFERENCE	HPF 001-00 / HPF 002-00 HPF 019-00 / HPF 020-00	HPF 003-00 / HPF 004-00 HPF 021-00 / HPF 022-00
CONTENTS	5 OR 7 ml IN VIAL OR SYRINGE	

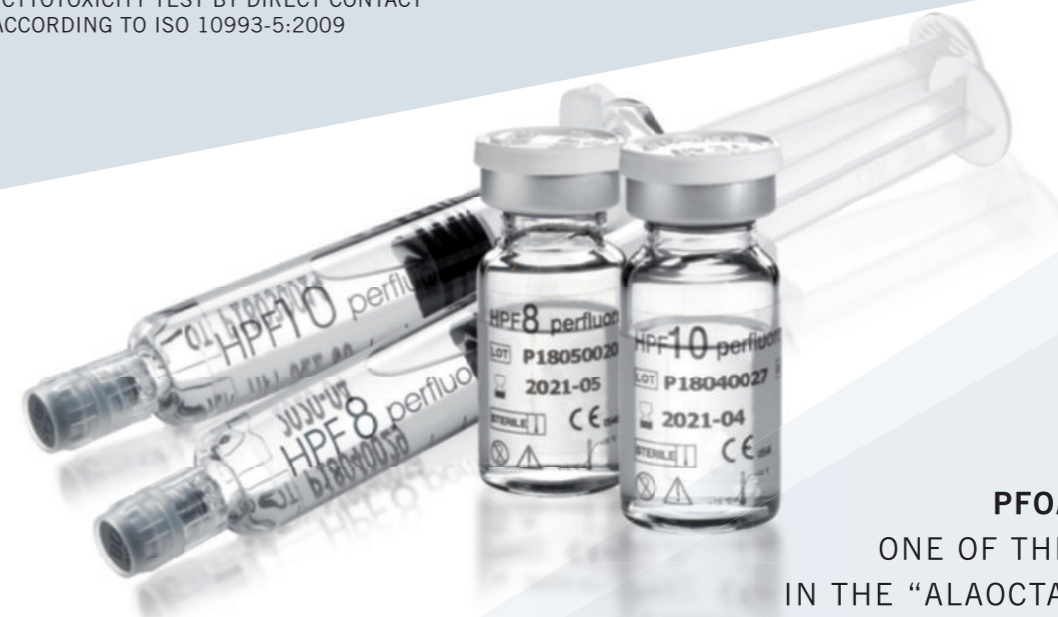
SAFETY INFORMATION

	ALCHIMIA		DORC		PHARMPUR	
COMMERCIAL NAME	HPF8	HPF10	EFTIAR OCTA	EFTIAR DECA	OPHTAFUTUR OCTA	OPHTAFUTUR DECA
ACTIVE INGREDIENT	Perfluoro-n-octane	Perfluoro-decalin	Perfluoro-n-octane	Perfluoro-decalin	Perfluoro-n-octane	Perfluoro-decalin
DECLARED PURITY	> 99%	> 95%	N/A	N/A	> 95%	> 95%
H _{VALUE}	< 10 ppm		< 10 ppm		< 10 ppm	
CYTOTOXICITY (BALB 3T3)* cell mortality %	1.7	4.8	4.8	6	N/A	6
CYTOTOXICITY (ARPE-19)* cell mortality %	7.7	12.6	12.8	15.9	N/A	21
PFOA (perfluorooctanoic acid)	not present		N/A		N/A	

THE SAFETY OF OUR PERFLUOROCARBONS IS GUARANTEED BY THE ACCURATE CHECKS CARRIED OUT DURING ALL THE MANUFACTURING STEPS AND CONFIRMED BY GAS CHROMATOGRAPHIC ANALYSES (PURITY), NUCLEAR MAGNETIC RESONANCE (H_{VALUE}) AND CYTOTOXICITY TEST (DIRECT CONTACT ON BALB 3T3 AND ARPE-19 CELLS).

N/A = NOT AVAILABLE

*CYTOTOXICITY TEST BY DIRECT CONTACT ACCORDING TO ISO 10993-5:2009



Let's talk about **H_{value}**

PFOA (perfluorooctanoic acid), ONE OF THE CONTAMINANTS FOUND IN THE "ALAOCTA" PERFLUORO-N-OCTANE BY ALAMEDICS, WHICH CAUSED LOSS OF VISION IN OVER 100 SPANISH PATIENTS, WAS CYTOTOXIC IN THE CYTOTOXICITY TEST BY DIRECT CONTACT ON ARPE-19 CELLS AT A CONCENTRATION OF 30 PPM CORRESPONDING TO AN H_{VALUE} LOWER THAN 10 PPM.

THEREFORE, THE H_{VALUE} IS NOT A PARAMETER EVIDENCING THE PRODUCT SAFETY.