

Auto  
Green A/F



298 Beinoris Drive, Wood Dale, IL 60191

## **Auto Green Antifreeze**

### **Product Information Sheet**

MAXSAFE's Green Car Antifreeze uses Penray 2797, an advanced antifreeze inhibitor package that features a low-silicate, phosphate-free formula to provide trouble-free service in any vehicle. Antifreeze made with virgin glycol and Penray 2797 may be used in any liquid-cooled engine.

A concentrated formula, Penray 2797 is added to pure glycol at 2.2 vol% to achieve the product claims. The finished product will meet ASTM automotive (light duty) specifications and may also be used in diesel engines with traditional supplemental coolant additive.

MAXSAFE's Green Car Antifreeze is designed to be compatible with and will provide satisfactory performance in most cars and trucks, including (but not limited to) the following:

<b>ASTM D-4895</b>
<b>ASTM D-3306</b>
<b>ASTM D-4656 Auto Pre-diluted</b>
<b>ASTM D-5345 Heavy Duty Pre-diluted</b>
<b>TMC RP-302 A</b>
<b>GM 1825M</b>
<b>Chrysler MS 7170</b>
<b>Ford ESE-M97B44-A</b>
<b>▶ SEE NEXT PAGE FOR FURTHER DETAILS ◀</b>



# MAXSAFE

antifreeze

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Penray 2797 @ 2.2% in 95.8% Ethylene Glycol and 2% Water ASTM D-3306 and D-4985 Specifications			Penray 2797
Property	ASTM Test Method	ASTM Specification	2792 Performance
Specific Gravity @ 60° F	D-1122	1.110 – 1.3145	1.125
Freezing Point F° (C°)	D-1177	50 Vol % in Distilled Water: -34°F (-37°C) Max or Lower	50 Vol % in Distilled Water: -34°F (-37°C)
Boiling Point <sup>A</sup> F° (C°)	D-1120	325°F (163°C) Min	327°F (164°C)
Effect: Automotive Finish	D-1882	No Effect	No Effect
Ash Content, Mass %	D-1119	5% Max	0.53%
PH: 50 Vol % in Water	D-1287	7.5 – 11.0	10.4
Chloride, PPM	By IC	25.0 Max	20.0
Water, Mass %	D-1123	5 Max	3.2
Reserve Alkalinity, ml	D-1121	Report <sup>B</sup>	6.8
Corrosion in Glassware Weight Loss, mg/specimen	D-1384		
Copper		10 Max	1
Solder		30 Max	7
Brass		10 Max	0
Steel		10 Max	1
Cast Iron		10 Max	1
Aluminum		30 Max	0
Simulated Service Weight Loss, Mg/specimen	D-2570		
Copper		20 Max	4
Solder		60 Max	17
Brass		20 Max	3
Steel		20 Max	2
Cast Iron		20 Max	2
Aluminum		60 Max	3
Corrosion of Cast aluminum Alloys at Heat Rejecting Surfaces mg/cm <sup>2</sup> /Week	D-4340 <sup>C</sup>	1.0 Max	0.4
Foaming Volume, ml Break Time, seconds	D-1881	150 Max 5 Max	45 ml 2.7 sec
Cavitation Erosion Rating: Pitting, Cavitation or Erosion of the Water Pump	D-2809	8 Min	10

<sup>A</sup> Some precipitate may be observed at the end of the test. This should not be cause for rejection.  
<sup>B</sup> Agreed value between supplier and customer.  
<sup>C</sup> This test is not required by ASTM D-4985; however, ASTM D-3306 requires it.

Antifreeze made with virgin Ethylene Glycol and Penray 2797 @ 2.2% by volume will yield antifreeze that is compatible with and will perform satisfactory to the standards listed below:

- ASTM D-3306
- ASTM D-4985
- TMC RP-302A
- GM 1825M
- Ford ESE-M97B44-A
- Chrysler MS 7170