

# TREBLEX

Solutions for industry

## PRODUCT DATA SHEET

Product Code: TAF50-RTU

## ANTI FREEZE ANTI BOIL RTU - 50/50

### DESCRIPTION

This is a general purpose ready to use glycol based treatment for automotive cooling systems. Freezing point is -35°C approx at 50% dilution and -15°C at 35% dilution. Replace at 24 month / 60,000 km intervals. May be replaced more frequently depending on engine and driving conditions. Top up radiator as required to avoid rundown in concentration.

Product contains a pH-buffered blend of additives known to reduce the corrosion of steel, cast iron, aluminium alloy, brass, copper and solder.

This product exceeds the performance requirements of the following standards when assessed in hard water and is made to General Motors Specification HN 2043

- \* ASTM D1384 "Corrosion Test for Engine Coolants in Glassware."
- \* ASTM D4340 "Corrosion of Cast Aluminium Alloys in Engine Coolants Under Heat Rejecting Conditions."
- \* ASTM D2570 "Simulated Service Corrosion Test for Engine Coolants."
- \* ASTM D2809 "Cavitation Corrosion and Erosion Corrosion Characteristics of Aluminium Pumps With Engine Coolants."
- \* Australian/New Zealand Standard 2108.1:1997 "Engine Coolants Type A and Type B for Engine Cooling Systems."

This product will not reverse pre-existing corrosion problems, and should not be used in conflict with engine manufacturer's recommendations.

The requirements in today's modern motoring place huge burdens on motor vehicle cooling systems and there is a need to ensure that the system is treated with a superior anti-freeze anti-boil inhibited product to ensure peace of mind and to save on costly repairs. May adversely affect paint finishes if spilled.

### APPLICATION

First read the label on the container and the vehicle manual. When engine and cooling system are cool, drain existing coolant (including the heater) as per the vehicle owners' manual or by disconnecting lower radiator hose. After draining, flush system (including heater core) thoroughly with coolant and reconnect hoses, drain plugs etc. In a clean vessel mix Treblex Anti freeze Anti boil at 35-50% with clean water and slowly add sufficiently to fill the cooling system. Refer to the vehicle owners manual for the volume needed. To avoid possible incompatibility problems, do not mix with other coolant formulations.

Check level after the engine has reached operating temperature and allowed to cool again. Top up with pre-diluted Treblex Anti freeze Anti boil if necessary.

Used coolant may be harmful to the environment (due to the extraction of heavy metals from the engine): contact regulatory authorities on appropriate methods of disposal.



Package sizes: 5L, 20L, 200L, 1000L

**SAFETY :** This product contains ethylene glycol and is poisonous if swallowed. Read Safety Data Sheet before use. Avoid contact with the skin and eyes. Keep out of reach of children.

Information contained herein is accurate at the time of writing this document. However specifications change from time to time, please ensure that the specifications meet your requirements.

**Treblex Industrial Pty Ltd : U1/26 ilda Rd, Canning Vale, WA, 6155 — Ph: 08 9456 5825**

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### Properties

- Specific Gravity : 1.12 – 1.13
- Reserve Alkalinity (ASTM D1121) : > 10.0
- Freezing Point (1:2 by volume) : -15°C approx
- (1:1 by volume) : -35°C approx
- (2:1 by volume) : -40°C approx
- Boiling Point (1:2 by volume) : 120°C approx
- (1:1 by volume) : 125°C approx
- (2:1 by volume) : 130°C approx
- Glycol Content : 980 ml / litre
- pH (1:2 by volume) : 10.5 Approx.
- Formulation Type : GMH HN2043
- Flammability Class : Non-flammable (Combustible)

### Test Results

Glassware Corrosion : ASTM D 1384

	Maximum Allowable Mass Change (mg)				Anti-freeze / Anti-boil
	AS 2108	ASTM D3306	BS 6560	GM 1825M	Avge
Copper	10	10	10	10	+1.4
Solder	15	30	15	20	-1.1
Brass	10	10	10	10	-0.2
Steel	10	10	10	10	-0.4
Cast Iron	10	10	10	10	+0.9
Cast Aluminium	15	30	15	20	+0.1

Test performed at 1:2 (v/v) in hard water.

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**Corrosion of Heat Stressed Alloy : ASTM D 4340**

Heat transfer corrosion rate = 0.077 mg/cm<sup>2</sup>/week

Allowable corrosion rate = 1.0 mg/cm<sup>2</sup>/week

Test performed at 1:3 (v/v) in hard water.

**Simulated Service : ASTM D 2570**

	Maximum Allowable Mass Change (mg)		Anti-freeze /Anti-boil
	AS 2108	ASTM D3306	Avge
Copper	20	20	-0.3
Solder	30	60	-1.5
Brass	20	20	-0.4
Steel	20	20	-2.4
Cast Iron	20	20	-7.9
Cast Aluminium	30	60	-2.5

Test performed at 44% (v/v) in hard water.

Cavitation Corrosion : ASTM D 2809

Corrosion Rating 9

**No cavitation damage evident.**

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