



## SG92HFL cod. ARTICASG

### NON-TOXIC ANTIFREEZE SPECIFIC FOR SOLAR PANEL

Antifreeze liquid colorless. Due to its special composition and low toxicity is also used in the food, pharmaceutical and cosmetic industries. Enriched with an effective inhibitor package, prevents the corrosion of metals in contact. ARTICA SG is a permanent antifreeze glycol monopropylene based and is distinguished by the absence of amines and nitrites. ARTICA SG protects all metals, in particular aluminum and copper (which constitute the main parts of a circuit of cooling or heating), from corrosion. It is necessary in breweries, plants for the manufacture of ice creams and foodstuffs in general, as well as in all those cases in which the liquid refrigerant can accidentally contact the substance refrigerated.

#### Chemical / physical characteristics

#### Specification ARTICA

Specific Gravity 15 °C	1,04 - 1,06 kg/l
pH (Water solution 50% in vol.)	8,5-10,0
Water Content appear.	4,5 %max
Reserve Alkalinity	15 min
Ashes	1,5% max
Boiling Point	155 °C min
Freezing Point (50% in solution)	- 33 °C max
Viscosity at 20 °C	60,5 cps
Odour	slight
Foaming	50/2 (ml/sec) max
In water solubility	complete
Flammability	113 °C
Expansion factor	0.00072

#### USE INSTRUCTION:

clean the plant parts according to the rules in force (UNI CTI 8065, 8364, 8884-water treatment in heating systems), make a pickling if necessary to remove rust or slag with an appropriate product from Euroacque.

Prepare the mixture by mixing the antifreeze in water and not vice versa.

Introducing the mixture into the circuit from the most accessible point close to the boiler pump.

Let the plant running for several hours, then when boiler on turn the vent at the points where there is poor circulation.

**CAUTION:**

**For a good corrosion inhibition do not use less than 30% antifreeze.** 40%/ 70% for solar panels.

Always check the density of antifreeze and the efficiency of the degree of corrosion inhibition.

**Compatibility tests have shown that the products Euroacque are compatible with all common types of metallic material (and non-metallic) used for the pipes. ARTICA thanks to the pure glycol monopropylene formula ensure a prolonged protection to the system.**

**Boiling/ Freezing Point:**

in H2O Solution:

% ARTICA SG	FREEZING TEMPERATURE (°C)	BOILING TEMPERATURE (°C)
20	- 8	101
30	- 14	103
40	- 22	103
50	- 33	104
60	- 48	106
100	- 60	160

**Toxicity:**

The LD50 value is generally used to define the oral toxicity, the higher this value, the lower the toxicity of the product under examination.

The LD50 value of glycol monopropylene is 33g/kg, this value is five times greater than the value based on traditional antifreeze ethylene glycol (LD50 of 6.2 g / kg ), which means that in case of accidental ingestion, propylene glycol appears to be 5 times less toxic.

**Density/ freezing temperature  
ARTICA SG in water solution at 15 °C**

