

# RYNA GROUP RGD

Antifreeze additive  
package



## Technical Data sheet (TDS)

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## Technical Data Sheet (TDS)

### Hybrid Antifreeze Additive Package

A high quality formula that is Nitrite, Nitrate, Amines, Borate, Phosphates and Silicate free

#### Description

**R\_HOAT\_E5** is a high quality hybrid (HOAT) type antifreeze additive package. This product is an aqueous solution that is Nitrite, Borate, Amines, Borate, Phosphates, and Silicate free.

**R\_HOAT\_E5** is formulated to blend easily with MEG (Mono Ethylene Glycol) and make a final concentrated or "ready to use" antifreeze solution for cooling systems of light and heavy-duty vehicle engines. This product imparts excellent corrosion protection to all cooling system metals and alloys used in internal combustion engines. When mixed in the appropriate dosage in MEG, this product can meet the requirements of the ASTM D3306/ASTM D4985 standard.

#### DOSAGE

Based on the quantity of glycol (MEG), add 5% by weight of the additive package while agitating or circulating the tank contents. So final solution contains 5% **R\_HOAT\_E5** and 95% MEG

#### PROCEDURE

Start by charging the necessary amount of glycol (MEG) into the blending tank. Heat the glycol to a normal temperature. Maintain the fixed temperature throughout the blending procedure. Add the required amount of **R-OAT-E5** while mixing tank contents. Good mixing is vital to making a consistent and proper product. Agitate for 30-60 minutes after the addition of the additive package. Although this additive package has antifoam as part of the formulation, depending upon your glycol base, additional antifoam may need to be added to pass the ASTM foam test.

## TECHNICAL PROPERTIES

(Antifreeze from 5% R\_HOAT\_E5 and 95% MEG)

Property	Unit	Value	Test Method
Appearance	---	Clear to Cloudy Liquid	Visual
Color	---	Customer Order	Visual
PH @ 20°C 100%	---	8.0 ~ 8.5	ASTM D1287
PH @ 20°C 50% v/v	---	8.0 ~ 8.5	ASTM D1287
Specific gravity @ 15 °C	---	1.117	ASTM D2896
Reserve alkalinity	ml	8 ~ 13	ASTM D1121
Freezing Point 50%wt	°C	-38	ASTM D7153
Water Content	Wt.%	3.0 Max	DIN 51777

## HANDLING AND STORAGE

R-OAT-E5 must be stored above 40°F (5 °C) at all times. If a container arrives very cold in your warehouse, immediately place it in a hot room for 1-2 days then stir thoroughly before use. Once a container is opened there is a possibility of the liquid phase evaporating, so close the container tightly after each use.

High temperatures, above 90°F (35°C), for an extended period may also cause degradation of the inhibitors.

The shelf life is 12 months.

## SAFTY

For detailed information, please refer to the relevant Safety Data Sheet.

