

### Features

- Heavy-duty, nitrated, heat transfer fluid.
- Silicate-free, and phosphate-free.
- This product meets the following industry specifications:
  - ASTM D3306 (automotive/light-duty) including D1384.
  - ASTM D4985 (heavy-duty diesel/low silicate).
  - ASTM D6210 (fully formulated and precharged).
  - TMC of ATA RP 302A
  - TMC of ATA RP329/330

### Applications

Recommended (but not limited) for use in these applications:

- Cummins CES14603 (per service bulletin 3666132-02)
- Cummins 90T8-4
- John Deere H24
- EMD M.I. 1748E
- Caterpillar DEAC
- Waukesha 4-1974D

### Operating Temperatures & Freeze/Burst Protection

HDN EG-HTF Concentrate can be used to provide both freeze and burst protection for systems which may be exposed to very low temperatures. To obtain adequate freeze protection, select a glycol concentration with a freeze point at least 5°F below the lowest anticipated ambient temperature.

Water used to dilute HDN EG-HTF Concentrate must be of acceptable quality. Deionized water is best, but other sources of water are acceptable if they contain less than 100 ppm total hardness measured as calcium and magnesium compounds. Higher hardness levels may cause excessive inhibitor consumption, scale deposits and metal pitting.

%Vol HDN EG-HTF Concentrate	Freezing Point (°F, 760 mm Hg)	Boiling Point (°F, 760 mm Hg)
15**	23.6	215
30	3.7	220
40	-2.7	223
50	-34.6	226
60	-60.0	228

\*\*The concentration should be at least 30% glycol to maintain adequate corrosion inhibitors. If the concentration is below 30%, inhibitor package must be added to equal the amount found at a 30% concentration.

### Overview

HDN EG-HTF Concentrate is a heavy-duty, nitrated, ethylene glycol-based heat transfer fluid specifically designed to be used in stationary engine applications. It contains a full complement of heavy-duty inhibitors, including a minimum of 2,400 ppm nitrite (as NO<sub>2</sub>) in concentrate. The formulation is silicate-free, and **phosphate-free** which minimizes the problems associated with hot surface scaling that may be experienced with other fluids. HDN EG-HTF Concentrate provides outstanding protection from cavitation erosion/corrosion in water pumps and wet sleeve cylinder liners, as well as excellent overall corrosion protection.

HDN EG-HTF Concentrate contains an advanced inhibitor system that provides a wide range of inhibitors which protect all system metals. These inhibitors combined with the glycol base, give year-round protection against freeze-ups, boil-overs and engine cooling system corrosion. This industrial heat transfer fluid contains **antiscalants and dispersants** to disperse minor oil leakage, prevent scaling and fouling and it will not damage paint finishes or rubber parts.

HDN EG-HTF Concentrate is recommended for use in applications commonly found in the oil & gas industry, including natural gas processing, power generation, compressor engines, etc. The product is also recommended for applications in heavy industry that require a heavy-duty “fully formulated” silicate-free coolant.

### Product Specifications

PROPERTY	VALUE
Ethylene glycol (WT%)	95 min
Corrosion inhibitors (WT%)	2.5 max
Flash point (°F)	250 min
Reserve alkalinity (ml)	10 min
pH (50% v/v)	9.5 – 10.8
Specific gravity (60/60°F)	1.110 – 1.145
Color	blue*
Nitrite (ppm)	2,400 min
Chloride (ppm)	25 max
Silicates (ppm)	< 250

\*Standard color. Custom color available upon request

Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user's specific application. Berryman Chemical Inc. does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or the product itself. The user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with the use of the information contained herein or the product itself. Further, information contained herein is given without reference to any intellectual property issues, as well as federal, state or local laws which may be encountered in the use thereof. Such questions should be investigated by the user.