## Heavy Duty Coolant PreMix

- Ready to use, low silicate, phosphate/amine free formulation
- With added Nitrite and Molybdate to stop pitting of cylinder liners
- Ready to use ethylene glycol and deionised water based coolant incorporating advanced hybrid technology inhibitors. The inhibitor package is a balanced mix of organic and inorganic inhibitors specifically designed for heavy-duty engines.
- Suitable for all diesel and gasoline engines
- Anti-freeze: for cold conditions: used as supplied, will provide freeze protection to –37 C
- Anti-boil: for hot conditions: used as supplied, raise boiling point to 129 C (with a 103 kpa radiator cap)
- Longer life expectancy than conventional coolants: up to 400 000 kms/6 000 hours/2 years service life.
- Properly maintained, Donaldson HD Coolant PreMix can be used for 250 000 kms/4 000 hours/12 months without recharge.
- Fully formulated, ready to use, does not require dilution


## Heavy Duty Coolant Concentrate (requires 50% dilution)

- Low silicate, phosphate/amine free formulation
- With added Nitrite and Molybdate to stop pitting of cylinder liners
- Suitable for all diesel and gasoline engines
- Anti-freeze: for cold conditions: diluted at 50% with deionised/ distilled water will provide freeze protection to –37 C
- Anti-boil: for hot conditions: diluted at 50% with deionised/ distilled water will raise boiling point to 129 C (with a 103 kpa radiator cap)
- Longer life expectancy than conventional coolants: up to 400 000 kms/6 000 hours/2 years service life.
- Properly maintained, Donaldson HD Coolant Concentrate can be used for 250 000kms/4 000 hours/12 months without recharge.
- Suitable for use to correct ethylene glycol dilution as indicated by testing.

**Radiator Flush -** *Give your radiator a clean start!*

- Safe, economical and easy to use
- Removes light mineral scale and limited oxide deposits
- Contains highly efficient organic inhibitors and a dispersant-detergent agent
- Ideal for periodic preventative maintenance of all diesel and gasoline engine cooling systems
- Can be left in cooling system for up to 30 days and protects the system from corrosion while in use
- Compatible with engine coolants, non-toxic to aquatic life, biodegradable, phosphate and mine free

**Coolant Booster -** *The perfect way to keep your cool!*

- Liquid concentrate package designed to replace the additives that break down and deplete during the course of normal service
- Compatible with most contemporary antifreezes and coolants
- Ensures protection against scale build up, corrosion, cavitation erosion and wet sleeve liner pitting
- Can be used as a supplemental coolant additive (SCA) to maintain (recharge) and protect cooling systems treated with Donaldson Heavy Duty Coolant, Fleetguard DCA4, Compleat 50 and TEC50.
- Service life of 2 years/2 500 hours/280 000 kms.

**Donaldson Coolant Test Strips**

- Clear, Simple, easy to use
- 3 tests in 1: Glycol concentration, molybdate, nitrite
- Available in low cost 4 strip packs or 50 strip kits.

Donaldson®
*Filtration Solutions*

Engine Filtration Products
Compressed Air Purification
Gas Turbine Filtration
PTFE Membrane Technologies
Hydraulic Filtration
Dust, Fume & Mist Collection

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**Donaldson Part No. DO396**

Donaldson®

# WHY YOU SHOULD STICK TO YOUR HEAVY DUTY COOLANT


Donaldson®
*Filtration Solutions*

**www.donaldsonfilters.com.au**

## If you're on a good thing... why would you change?

Like most people, you've probably been using an Ethylene Glycol based coolant for years. And why not? Put simply, Ethylene Glycol (EG) based coolants remain the superior performance-base for heavy-duty applications in Australia's hot, dry conditions.

But with growing OH&S concerns related to the general handling of toxic chemicals such as EG and some manufacturers opting to on sell only propylene glycol (PG)-based coolants, you may have been contemplating converting to a propylene glycol (PG) based coolant.

But as the saying goes, 'if it ain't broke, why fix it? '

Sticking with your EG based coolant is not only environmentally sensible but it also makes good business sense.

And Donaldson has a range of high quality, superior performance EG based coolants specifically designed for heavy-duty use.

## EG & The Environment

Correctly disposed of, EG-based coolants offer no more significant risk to the environment than its PG counterpart. About half of the compounds that enter the air will break down in 24-50 hours and within several days to a week in water and soil.

Though the United States Food and Drug Administration regard propylene glycol *in its pure form* as being "non-toxic", ***all coolants are toxic*** and should not be ingested. As with EG-based coolants, manufacturers add toxic chemicals to the PG base. ***All coolants should be kept away from children and pets and waste coolant should be properly disposed of.***

Furthermore, the oxygen demand in the biodegradation process for EG is lower than for PG. As such, wastewater treatment plants can handle EG with greater ease than PG. As with EG, disposal of PG based coolant must be considered carefully. Use of PG may possibly affect licences to discharge to sewers; accidental spillage can cause fish kills in waterways depleted of dissolved oxygen.

## Why stick with your EG based coolant?

Put simply, Ethylene Glycol (EG) remains the superior performance-base for heavy-duty applications in Australia's hot, dry conditions.

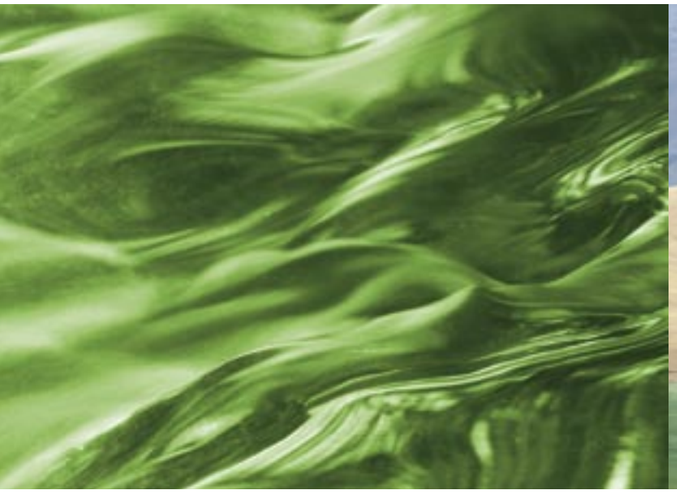
While propylene glycol (PG) coolant remains a versatile solution for general purpose applications, EG based coolant offers superior cooling abilities for engines placed in the extreme weather conditions experienced by machines operating in the mining, forestry and agricultural industries.

PG coolant is also not recommended for many power stroke diesel engines as – due to its chemical make up - PG coolants can cause damage to aluminium parts, gasket materials and certain kinds of hoses. It also has a lower boiling point than EG coolant, which can adversely affect the power output in modern cooling systems within high output engines.

Commercially marketed premixed PG coolants may contain lower glycol levels than the EG equivalent therefore resulting in inferior antifreeze properties.

Most importantly, EG based coolants remain a relatively cheaper option than PG based coolants making bulk purchase of EG-based coolant a cost-effective solution for the management of large fleets or maintenance of large, heavy duty vehicles.

Additionally, ***EG and PG coolants should not be mixed***; their different mineral composites make it necessary for users to undertake a full system flush if changing coolant. Undertaking necessary radiator flushing to accommodate the use of PG-based coolant can be a costly exercise for users who are involved in large-scale operations!

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