



TURBO POWER[®]



COMPLETE CARE FOR DIESEL ENGINES

Protecting your heavy duty engine with TURBO POWER[®]





TURBO POWER®

DIESEL ENGINE CARE SOLUTIONS

You want to achieve top performance protection and avoid costly repairs and downtime on your diesel engine systems.....we have the answers in a new, complete line of Heavy Duty (HD) products under the Recochem TURBO POWER HD brand.

Recochem's team of experts is committed to developing products using advanced technological innovations and state of the art analytical and ASTM laboratory testing. As an international formulator and packager of automotive fluids with worldwide distribution and technical support, Recochem is equipped to offer the best in class diesel engine care fluids.

Be assured, the TURBO POWER HD line of engine care products in this catalogue have been tested, formulated and approved for quality maintenance of diesel engine systems. With products for cooling systems, fuel treatment fluids and HD cleaners, Recochem introduces a spectrum of engine care products for your convenience.

For easy, reliable diesel engine system care, the TURBO POWER HD line-up is your complete solution to protect your investment!



DIESEL ENGINE CARE PRODUCTS

When it comes to improving fuel economy and getting better mileage, engine maintenance is vital. **TURBO POWER** coolants and engine care products help provide premium engine protection while simplifying the maintenance program for modern diesel engines.

DIESEL ENGINE COOLANT SYSTEM CLEANER

Diesel Engine Coolant System Cleaner is formulated with special chelating and sequestering agents to effectively remove scale and corrosion deposits found in light and heavy duty cooling systems without harming metal surfaces, hoses, seals or other components.

Performance Features & Benefits:

- Removes corrosion and scale
- Restores efficient heat transfer
- ONE STEP – Neutralizing rinse is not required

APPLICATION: Use HD Engine Coolant System Cleaner during recommended coolant change intervals to promote engine operation efficiency and eliminate overheating that may result from loss of heat transfer.

DOSE STATEMENT: One bottle (946 mL) to be used for every 15 litres (4 gallons) coolant capacity.

Product available in the following size:

Item #	Container Size	Case Pack
15-001	946 mL bottle	6



HD DIESEL EXL DIESEL COOLANT EXTENDER

Diesel Coolant Extender is designed to maximize coolant life between drain intervals by replenishing coolant inhibitors that guard against rust and corrosion. The advantage of using an extender is that it boosts nitrite levels for protection against liner pitting caused by cavitation.

Performance Features & Benefits:

- Extends coolant in-field service life up to 960,000 km, 12,000 hours or 6 years
- Replenishes corrosion inhibitors
- Provides nitrite boost for protection against liner pitting
- Specifically for use in **HD Diesel EXL Extended Life Antifreeze/Coolant**
- Phosphate Free

APPLICATION: Use only with extended life coolants meeting the performance requirements of ASTM D6210. The coolant extender should be added at 480,000 km or 6,000 hours of operation, whichever occurs first.

Note: Do not use for initial fill or as a coolant top-off. Not for treatment of traditional type coolants.

Diesel Coolant Extender

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Every 480,000 km	960,000 km or 6 years

Treat rate for Diesel Coolant Extender

COOLING SYSTEM CAPACITY		EXTENDER VOLUME TO ADD
Litres	Gallons	Bottle quantity
20 – 30	5 – 8	1
30 – 45	8 – 12	1 ½
45 – 60	12 – 16	2
60 – 75	16 – 20	2 ½
75 – 90	20 – 24	3
90 – 120	24 – 32	4

Product available in the following size:

Item #	Container Size	Case Pack
16-571	946 mL bottle	6



ANTIFREEZE/COOLANTS — HEAVY DUTY

HD DIESEL HEAVY DUTY

Heavy Duty Antifreeze/Coolant is a superior fully formulated traditional engine coolant based on a proprietary formulation of corrosion inhibitors to protect against cavitation and corrosion of all common coolant system metals.

Performance Features & Benefits:

- Low Silicate; Phosphate Free
- Aluminum compatible (safe for use in aluminum engines)
- Does not require an initial charge of supplemental coolant additives (SCA) upon initial fill
- Advanced liner pitting and corrosion protection
- Recommended for use where a heavy duty diesel coolant is required; including, but not limited to Caterpillar, Cummins, Detroit Diesel, Ford, GM and Volvo Mack
- Provides exceptional boil over and freeze protection
- Available in Concentrate and 50/50 Premix formulations

COMPATIBILITY: Specially formulated to protect heavy duty diesel wet sleeve liners, it is compatible with coolant filters, heavy duty diesel SCAs, hard water and other traditional fully formulated corrosion inhibited engine coolants.

APPLICATIONS: Recommended for multi-vehicle fleets including automotive, light duty and heavy duty diesel applications such as on-road trucks, off-road and farm applications.



Chemical Name: Ethylene Glycol-based Engine Coolant

Typical Product Properties:

Characteristic	Performance	Test Method
pH ^a	10 - 11	ASTM D1287
Specific gravity ^b	1.110 - 1.140	ASTM D1122
Freeze point ^a (°C/°F)	-37/-34	ASTM D1177
Foam volume (mL)	150 max.	ASTM D1881
Foam break time (second)	5 max.	ASTM D1881
Reserve Alkalinity (mL)	10.0 min.	ASTM D1121
Chloride (ppm)	25 max.	ASTM D3634
Silicon (ppm)	250 max.	ASTM D6130
Colour	Purple	
Glycol Content (wt.%)	95 min.	
Inhibitors and Water Content (wt.%)	5 max.	

^a50% volume aqueous solution

^bMeasured at 15.6°C/60°F

Meets the following specifications:

ASTM D3306, D4985, D6210
 Detroit Diesel 75E298, 93K217
 GM 1825M, 1899M
 TMC RP 329B

Product available in the following sizes:

Item #/Formulation	Premixed	Container size	Case Pack
Concentrate			
16-284	16-474	3.78 L bottle	4
16-285	16-475	9.46 L bottle	2
26-289	26-479	205 L drum	NA
26-289-1000	26-479-1000	1000 L tote	NA

ANTIFREEZE/COOLANTS — EXTENDED LIFE

HD DIESEL EXL EXTENDED LIFE

Diesel Extended Life Antifreeze/Coolant is a hybrid technology product that is OEM approved and specially formulated to protect all coolant system metals and provide excellent wet sleeve liner cavitation protection.

Performance Features & Benefits:

- Low Silicate, Phosphate and Amine Free
- Provides an in-service life of up to 960,000 km, 12,000 hours or 6 years, or whichever comes first, when used in combination with **HD Diesel EXL Coolant Extender**
- Does not require an initial charge of supplemental coolant additives (SCA) upon initial fill
- Designed for use in light and heavy duty diesel applications where an extended service interval is required
- Provides exceptional boil over and freeze protection
- Available in Concentrate and 50/50 Premix formulations

APPLICATIONS: Recommended for use in on-road truck, off-road, farm, marine and stationary applications including, but not limited to, Caterpillar, Cummins, Detroit Diesel/MTU, GM Heavy Truck, Freightliner, PACCAR and Volvo Mack.



Chemical Name: Ethylene Glycol-based Engine Coolant

Typical Product Properties:

Characteristic	Performance	Test Method
pH ^a	7.5 - 8.6	ASTM D1287
Specific gravity ^b	1.125 - 1.140	ASTM D1122
Freeze point ^a (°C/°F)	-37/ -34	ASTM D1177
Foam volume (mL)	150 max.	ASTM D1881
Foam break time (second)	5 max.	ASTM D1881
Reserve Alkalinity (mL)	6.0 min.	ASTM D1121
Chloride (ppm)	25 max.	ASTM D3634
Silicon (ppm)	250 max.	ASTM D6130
Colour	Red	
Glycol Content (wt.%)	94 min.	
Inhibitors and Water Content (wt.%)	6.0 max.	

^a50% volume aqueous solution

^bMeasured at 15.6°C/60°F

Meets the following specifications:

ASTM D3306, D4656, D5345, D6210
 CAT EC-1
 CID-A-A-52624
 Detroit Diesel 7SE298, 93K217
 Japanese Standard JIS K2234
 MTU MTL 5048
 TMC RP 329
 Cummins

Product available in the following sizes:

Item #/Formulation

Concentrate

16-734

26-739

26-738-1000

Premixed

16-834

26-839

26-838-1000

Container size

3.78 L bottle

205 L drum

1000 L tote

Case Pack

4

NA

NA

PERFORMANCE & TREATMENT FLUIDS

PREMIUM DIESEL FUEL CONDITIONER — WITH ANTIGEL

Premium Diesel Fuel Conditioner promotes Anti-gel Winter Performance and is especially suited for use in extreme cold temperature operations. As a diesel fuel additive, it prevents fuel filter plugging and reduces fuel's pour point to help avoid inefficient operation or costly engine down time. It cleans and prevents moisture and deposit formation while providing lubrication to the fuel system for overall premium extended corrosion and wear protection.

Performance Features & Benefits:

- Special "anti-gel" additives promote strong cold start and combustion performance at extreme low temperatures
- Cleans & lubricates fuel system
- Improves cetane rating
- Sulphur Free
- Improves fuel economy by increasing power and mileage while reducing harmful emissions

APPLICATION: Premium Diesel Fuel Conditioner is safe for year round use. A sulphur free product, it is suitable for use with all diesel fuel types, including bio-blends and ultra low sulphur (ULSD) grade. It mixes readily in diesel fuel and can be handled and applied down to -40°C.

Note: It will not void vehicle manufacturer's warranty.

Treat rate for Premium Diesel Fuel Conditioner

	Add 100 mL Treatment to	Add 1 bottle (1.89 L) Treatment to
Winter Conditions (below 0°C)	63 L fuel	1200 L fuel
Seasonal Conditions (above 0°C)	190 L fuel	3600 L fuel

Product available in the following size:

Item #	Container Size	Case Pack
15-292	1.89 L bottle	6



DIESEL FUEL CONDITIONER

Diesel Fuel Conditioner prevents and thaws frozen fuel lines in diesel engine systems. Eliminating moisture in fuel tanks, this product impedes internal tank corrosion and helps maintain injector nozzle cleanliness. It also aids in reducing smoke in the system.

Performance Features & Benefits:

- Removes moisture & cleans fuel system
- Sulphur Free
- Prevents & thaws frozen fuel lines
- Helps remove gum and sludge from entire fuel system

APPLICATION: Diesel Fuel Conditioner is designed for use in all types of diesel engines.

Treat rate for Diesel Fuel Conditioner

Add 100 mL Treatment to	Add 1 bottle (1 L) Treatment to
227 L Diesel fuel oil	2270 L Diesel fuel oil

Product available in the following size:

Item #	Container Size	Case Pack
15-281	1 L bottle	6



PERFORMANCE & TREATMENT FLUIDS

AIR BRAKE ANTIFREEZE

Air Brake Antifreeze helps guard the brake lines on diesel trucks, buses and construction equipment against freeze-up for complete winter protection. For maximum protection, use this product year-round to absorb moisture, provide corrosion protection and reduce brake failure.

Performance Features & Benefits:

- Prevents frozen air lines during winter temperatures
- Contains lubricants to minimize wear of valves and seals
- Readily absorbs condensation within the air brake systems
- Methanol-based for fast results

APPLICATION: Air Brake Antifreeze is recommended for use in the vehicle's evaporation reservoir tank or the air line hose on the supply tank.

Product available in the following sizes:

Item #	Container Size	Case Pack
15-261	1 L bottle	6
15-264	3.78 L bottle	4
15-268	18.9 L pail	NA
25-269	205 L drum	NA



METHYL HYDRATE

Methyl Hydrate is 99.9% guaranteed pure. During cold weather temperatures, methyl hydrate works well for defrosting air line hoses on tractor trailers and other commercial vehicles.

Performance Features & Benefits:

- 99.9% pure
- Low freeze point, remains fluid and suitable for de-icing applications
- Provides fast results during extreme cold temperatures

APPLICATION: Methyl Hydrate is not an anti-freeze for diesel fuel. Do not add to diesel fuel, or use as a fuel.

Product available in the following sizes:

Item #	Container Size	Case Pack
13-391HD	946 mL bottle	6
13-394HD	3.78 L bottle	4
13-398HD	18.9 L pail	NA
23-399HD	205 L drum	NA
23-399-1000	1000 L tote	NA



AIR1® DEF

Diesel Exhaust Fluid (DEF) is a pure, aqueous solution of urea and water, to be used in new diesel SCR engine technology. **AIR1® DEF** is API certified to guarantee product quality.

Performance Features & Benefits:

- Meets automotive industry specification defined by ISO 22241
- Required in trucks using SCR technology, DEF helps reduce emissions of NOx gases that are produced inside the engine during combustion

Product available in the following sizes:

Item#	Container Size
55-124AIR	3.78 L bottle
55-125AIR	9.46 L bottle
55-129AIR	208 L drum
55-129AIR-1000	1041 L IBC
55-129AIR-1250	1250 L IBC



HEAVY DUTY CLEANERS

MULTI-PURPOSE DEGREASER

Multi-Purpose Degreaser is a heavy duty cleaner that dissolves grease on contact. It cleans and degreases dirt accumulated on engines, tools and heavy equipment and machinery. This water-based alkaline detergent formula promotes powerful "industrial strength" degreasing and cleaning results.

Performance Features & Benefits:

- Cleans & degreases stubborn dirt on tools and engines
- Dissolves grease on contact
- Biodegradable; Phosphate Free
- Non-abrasive and non-flammable

APPLICATION: Use undiluted on a COLD, DRY engine and rinse thoroughly with clean water.

Note: Avoid painted surfaces as well as aluminum and aluminum alloy surfaces such as wheel rims.

Product available in the following size:

Item #	Container Size	Case Pack
12-504	3.78 L bottle	4



PARTS CLEANER

Parts Cleaner quickly removes dirt, oily residue and grease on engine parts and chassis. Its powerful cleaning action helps dissolve and remove grease and grime on large or finely machined metal parts without the use of special tools for a shiny engine finish.

Performance Features & Benefits:

- For engine parts and chassis
- Removes tar and oil deposits without leaving any residue
- Ultra low odour, non-aromatic grade of petroleum distillates
- Safe for use on metallic and porcelain surfaces including engines and small parts

APPLICATION: Use only on cool surfaces. Avoid prolonged exposure on rubber and polymer surfaces. Product can be used in Parts Washer equipment able to handle combustible fluids.

Product available in the following size:

Item #	Container Size	Case Pack
13-838	18.9 L pail	NA



TURBO POWER HD Products available at:



Recochem Inc.
Your Partner in Formulating Solutions

Montréal
H4T 1P4

Toronto
L9T 5G7

Edmonton
T9E 7X6

Vancouver
V3C 4P2

www.recochem.com