

GEARTH

GEARTH Heavy Duty Degreaser

Bio-Enzyme Hydrocarbon Remediating Degreaser

TECHNICAL DATA SHEET

TDS-GHD-001 | Rev 1.0 | June 2026

Type: Heavy Duty Bio-Enzyme Degreaser	Base: Water-Based Non-Toxic Non-Corrosive	Shelf Life: 12 Months Available: 5L, 25L, 1000L
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GEARTH Heavy Duty Degreaser is a powerful water-based, bio-remediating cleaner with superior degreasing capabilities. Formulated with hydrocarbon-degrading bio-enzymes, it effectively converts petrol, diesel, motor oils, fuel oils, grease, antifreeze, hydraulic fluid, brake fluid, ATF, cutting fluids, and heavy synthetic oils and greases into carbon dioxide and water through a natural bioremediation process.

Unlike solvent-based degreasers — which worsen water effluent discharge pollution, damage rubber and plastic components, fade vehicle signage, and introduce hazardous waste — GEARTH Heavy Duty Degreaser corrects C.O.D. and T.P.H. water effluent discharge requirements, eliminates hazardous waste disposal costs, and reduces health and safety risks.

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TECHNOLOGY OVERVIEW

Natural Bioremediation: Uses bio-enzymes to degrease far more effectively than solvent-based products, while permanently converting hazardous oils and greases into carbon dioxide and water.

Enzyme Cleaning Action: Microbes rapidly secrete high concentrations of digestive enzymes that permanently convert hydrocarbons into water and carbon dioxide in an ongoing, self-repeating process.

Proprietary Buffer Action: Maintains a constant pH across extensive loadings of acidic greases, ensuring consistent conversion and effective suspension of particulate soils.

Corrosion Inhibition: Forms a thin, monomolecular corrosion-inhibiting film on metal, glass and ceramic surfaces without building up, forming scale, or obstructing water flow.

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KEY FEATURES & BENEFITS

- Remediates hydrocarbons into water and carbon dioxide
- Outperforms solvent-based degreasers on heavy soils
- Corrects C.O.D. and T.P.H. water effluent discharge requirements
- Eliminates 100% of hazardous waste disposal costs
- Prevents slip-and-slide accidents — leaves surfaces dry and oil-free
- Forms a protective corrosion-inhibiting film on metal surfaces
- Safe on rubber, plastic and painted vehicle components
- Water-based formula — non-toxic, non-corrosive
- Highly concentrated — dilutes up to 1:100 for significant cost savings

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APPLICATIONS

Suited for use across garage forecourts, parking garages, drive-throughs, concrete floors, workshops, warehouses, tools, engines, wheels, vehicle components, car washes, aircraft carriers, ships, trucks, metal surfaces, and fuel and oil tanks.

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DILUTION GUIDELINES

Heavy Soils	Undiluted to 1:5 with water — maximum degreasing on heavily contaminated surfaces
Medium Soils	1:10 with water — regular workshop floors, engine bays and vehicle components

Light Soils	1:30 to 1:100 with water — routine maintenance cleaning
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5 TECHNICAL SPECIFICATIONS

Physical State	Liquid
pH	Buffered — maintains constant pH under extensive acidic grease loading
Solubility	Water-based — water soluble
Formulation Type	Water-based bio-enzyme / bio-remediation formula
Active Components	Hydrocarbon-degrading bio-microbes secreting digestive enzymes
Hydrocarbon Conversion	Converts petrol, diesel, motor oils, fuel oils, grease, antifreeze, hydraulic, brake, ATF, cutting fluids and heavy synthetic oils and greases into CO2 and water
Corrosion Protection	Forms thin monomolecular corrosion-inhibiting film on metal, glass and ceramic surfaces
TPH Performance	Microbes degrade waste 20% faster than international petrochemical industry benchmark
Toxicity	Non-toxic, non-corrosive

6 STORAGE & SHELF LIFE

Shelf Life	12 months from date of manufacture.
Storage Conditions	Store at ambient temperature, away from direct sunlight. Keep container sealed when not in use.

7 PACKAGING

5 L	Standard container
25 L	Standard container
1 000 L	Flow bin / IBC
Super Concentrate	Available for self-manufacturing — significantly reduces shipping costs

8 ENVIRONMENTAL INFORMATION

- Water-based, bio-enzyme formulation — not solvent-based.
- Bioremediation process permanently converts hazardous hydrocarbons into carbon dioxide and water.
- Actively corrects C.O.D. and T.P.H. water effluent discharge requirements.
- Eliminates 100% of hazardous waste disposal costs and associated environmental risks.
- EcoChoice Approved.

The information contained in this Technical Data Sheet is based on data believed to be accurate at the time of publication. GEARTH (Pty) Ltd reserves the right to update or revise specifications without prior notice. Users are responsible for determining the suitability of this product for their specific application. Always handle products in accordance with applicable health, safety and environmental legislation. Contact GEARTH (Pty) Ltd for site-specific application guidance.