

# Radiator Flush

## Cooling System Cleaner

### PRODUCT OVERVIEW

**PrixMax Radiator Flush** is an excellent choice for the periodic, preventative maintenance of diesel and petrol engine cooling systems without costly downtime. PrixMax Radiator Flush is a heavy duty cleaner compatible with all engine coolants, and can be conveniently left in the system for up to 30 days for heavy duty engines. The product contains a mixture of highly efficient organic inhibitors and a dispersant-detergent agent to effectively remove mineral scale and oxide deposits, whilst simultaneously providing corrosion and cavitation protection.

### PRODUCT BENEFITS

- Prevents overheating
- Removes rust, grease, sludge, built up mineral scale and other harmful deposits
- Certified Carbon Neutral
- Safe to use with all coolant types
- Extended Flush – up to 7 day treatment for passenger cars and light commercial vehicles and up to 30 days for heavy duty systems
- Reduces costly downtime
- Compatible with all system metals and plastic or rubber components

### TECHNICAL CHARACTERISTICS

Property	Method	Typical Results
Colour		Red
pH (5% by vol)	ASTM D1287	8.1
Density, g/ml, 20°C	ASTM D1122	1.06

Technical Characteristics are typical of those obtained with normal production tolerance. Variations in product typical results are to be expected during normal manufacture.

### MAINTENANCE

#### Recommended Concentrations

This product is a concentrate and must be diluted with good quality water before use.

#### *Passenger Cars and Light Commercial*

For petrol engine passenger cars and light commercial vehicles, the recommended treat rate of PrixMax Radiator Flush is 50ml for every 1 litre of cooling system capacity (5%). At this concentration, 500ml of PrixMax Radiator Flush will treat up to 10 litres of cooling system capacity.

#### *Heavy Duty*

For heavy duty diesel and gas engines, the recommended treat rate of PrixMax Radiator Flush is 100ml for every 1 litre of cooling system capacity (10%). At this concentration, 1 litre of PrixMax Radiator Flush will treat up to 10 litres of cooling system capacity.

#### Directions for use

1. From a cold start, drain the cooling system from all low points (eg the lower radiator hose, engine block drain plug (or petcock) etc). Thoroughly flush the system with clean water to rinse out residual fluid. Dispose of old coolant and flushing fluid in accordance with environmental regulations.
2. Replace hoses and drain plugs and refill the system with PrixMax Radiator Flush (diluted to the recommended concentration). Re-fit all removed hoses and drain plugs (closing all open petcocks) before attempting to run the engine as personal injury or product damage may occur.
3. Start engine and run for approximately 30 minutes, but for no less than 20 minutes to ensure opening of the thermostatic valves. Care must be taken to avoid moving or hot components while monitoring unit. Appropriate personal protective equipment (PPE) must be worn to avoid burns from hot fluid or chemical injury.
4. It is important that during the flushing procedure, all ports and capillaries are opened. The operator must closely monitor the temperature of the engine (as scale is removed from the engine during flushing, it can be deposited in the radiator, leading to reduced cooling capacity).
5. PrixMax Radiator Flush can be used in the cooling system for up to 7 days (for cars and light commercial vehicles) or 30 days (for heavy duty engines) without causing system damage. Refer to "Directions for Extended Flush Period" below.
6. Allow to cool and drain the cooling system from all low points (eg the lower radiator hose, engine block drain plug (or petcock) etc). Observe the colour and consistency of the fluid while draining. If there are any contaminants visible in the flushing fluid, repeat the above steps. Wear appropriate PPE and take care to avoid hot fluids as personal injury may occur. Ensure that all fluid is captured and disposed of in accordance with environmental regulations.
7. When certain that the system has been cleaned thoroughly, flush with clean water (preferably demineralised water). Ensure that all flushing fluid is captured and disposed of in accordance with environmental regulations. Re-fit all removed hoses

and drain plugs (closing all open petcocks) before attempting to run the engine as personal injury or product damage may occur.

8. Fill the system with the correct PrixMax coolant to suit the engine. Start the engine, checking for leaks and topping up as necessary.
9. If any fluid is spilt on paintwork, flush off immediately with clean water.

#### Directions for Extended Flush Period

- PrixMax Radiator Flush may be retained in the engine cooling system for up to 7 days (for cars and light commercial vehicles) or 30 days (for heavy duty engines) for best results and without causing system damage.
- Scale and corrosion deposits dislodged during this flushing period may accumulate in the radiator and other parts of the cooling system and cause an increase in operating temperature.
- Monitor the temperature gauge during the flush period and drain the system of flush fluid if the system temperature shows an abnormal increase over usual operating levels.
- In a highly scaled engine, it is recommended that precaution be taken to drain and rinse more frequently. This will help to avoid the fouling of radiators and engine coolers, and avoid engine overheating.
- Following any extended flush period, the system must be thoroughly drained and flushed with clean water in accordance with steps 6 and 7 under "Directions for Use" above.

#### Heavy Duty Cleaning

For engines with "green slime", excessive scaling or severe corrosion, contact your vehicle manufacturer or distributor. Heavy duty cleaning of diesel cooling systems in particular is a specialised operation requiring a thorough knowledge of the effects of chemicals on engine components and should not be attempted by the unskilled.

#### Directions for new and re-manufactured engines

- Prior to starting a re-manufactured heavy duty engine or an engine that has had the cylinder heads removed (eg for planned or unplanned maintenance), it is important that the engine is filled off with "untreated" water only.
- Water must remain within the cooling system circuits (including jacket water and auxiliary circuits if applicable) for the first hour of operation or just prior to the engine being brought back into service.
- It is recommended that the cooling system be pressure tested before draining. Refer to the engine manufacturer's maintenance manuals for the correct procedure for pressure testing. These maintenance manuals will provide detailed instructions regarding the maximum pressure that can be placed upon the cooling system, as well as any specialised tools that may be required.
- Ensure that the engine's cooling system has cooled down prior to undertaking the procedure described under "Directions for Use" above.

#### PACK SIZES

Part No	Pack Size
FLU-B500	500ml
FLU-C5	5 litre
FLU-P20	20 litre
FLU-D205	205 litre
FLU-B1000	1,000 litre

Please contact us for further enquiries.

#### TOXICITY AND SAFETY

Spent Radiator Flush may be toxic to aquatic life and should not be discharged untreated to sewers or water courses.

Place waste in appropriate containers for disposal. Dispose of spent Radiator Flush waste in accordance with all Local, State & Federal regulations at an approved waste disposal facility.

Hazards such as chemical spills, slips, manual handling injury and equipment damage occur if products and safety procedures are not followed. To aid in the prevention of incidents, appropriate PPE must be worn. Refer to the Safety Data Sheet for further information.

Further ENVIRONMENT, HEALTH and SAFETY Information is available on this product in the **Safety Data Sheet (SDS)**. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal.

To obtain the SDS for this product, please contact us.

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