

# Pitan Rust Remover - Concentrated IP3120



Approved by Rover / Land Rover – Part Number 15647 H & S BL 10490.

- A harmless way to remove rust from exterior and interior surfaces
- Will not harm hands, clothing, gaskets etc
- Will also clean Brass, Bronze and Copper – prolonged soaking of rusted and corroded parts in Pitan Rust Remover will not damage them
- Pitan Rust Remover is non-toxic, non-combustible, odourless with no fumes

Unlike strong aqueous solutions of phosphoric and hydrochloric acids, Pitan Rust Remover removes iron oxide by a mild complexing action, and does not attack the molecular structure of the un-rusted metal.

Laboratory research and practical application of Pitan Rust Remover has revealed that this solution removes efficiently from the interior of closed systems i.e. turbines, fresh water systems, boilers, sterilizers, sprinkler systems, fire mains, heating systems, large and small engines, storage tanks, circulating systems and other closed unit of equipment or closed piping system that would be impractical to clean by mechanical or conventional chemical methods.

The advantages of Pitan Rust Remover over current procedures for the removal of rust are as follows:

- Disassembly of equipment is unnecessary
- Equipment or system can be cleaned by inexperienced personnel
- Costly replacement of gaskets and other parts normally damaged during the disassembly, cleaning and re-assembly is eliminated
- Cyclone Rust Remover may be left in the equipment of system indefinitely without damaging or affecting in any way the un-rusted metal surface
- Normal rust deposit can be removed in a very short time; deep seated rust in inaccessible places requires a longer contact period for removal with Pitan Rust Remover
- Without any loss of effectiveness, Pitan Rust Remover can be added directly to water being circulated through or contained in various equipment or systems without requiring a shutdown or inactivity
- In most cases mere stationary contact of the rusty surface with Pitan Rust Remover is adequate for complete cleaning at any temperature above freezing point of solution used. This feature eliminates costly procedures such as agitation, circulation or heating in normal cases. In exceptional cases agitation and heating will expedite the action of Pitan Rust Remover.
- The entire rust removal operation can be carried out without the need for any costly or special equipment

Characteristics and other advantages of this cleaning solution are:

- Unlike strong aqueous solutions of phosphoric and hydrochloric acids, Pitan Rust Remover removes iron oxide by a mild complexing action and does not attack the molecular structure of the un-rusted metal body.

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This feature enables Pitan Rust Remover to convert iron oxide to a completely double form, thereby eliminating the necessity of removing residue from inaccessible places in equipment or system.

- All of the ingredients used in this preparation are non-combustible and non-toxic
- Pitan Rust Remover is odourless

Pitan Rust Remover does not affect the skin, clothing, gaskets or the un-rusted iron, bronze, brass and copper. When stored at low temperature Pitan Rust Remover may crystallise. Crystals will disappear when warmed up.

## **Pitan Rust Remover: Directions for use**

### ***Shake well before using.***

For cleaning small tools, parts, separate pieces of iron and steel:

- Using a clean steel, glass, plastic or wooden container add 19 equal parts of water to 1 part of Pitan Rust Remover (Although not essential, HOT water will accelerate the action)
- Soak the rusted parts until all rust is removed (between 4-48 hours)
- Rinse with clean water and allow to dry
- Apply oil or paint to prevent re-rusting

For removing surface rust:

- Mix 1 part of Pitan Rust Remover with 3 equal parts of either warm or cold water and apply solution to rusted surface by brush
- Agitate with wire-brush or steel wool
- Leave solution on for 15 minutes, then rinse with clean water to ensure completed neutralisation. Repeat as necessary until surface is rust free
- Allow surface to dry our thoroughly
- Apply a thin film of oil, or prime and paint to prevent subsequent re-rusting

For cleaning closed systems, e.g. heating systems, fire mains, water systems, radiators, cooling systems etc:

- Mix 1 part of Pitan Rust Remover with 19 equal parts of either cold or warm water
- Fill system to be cleaned with the mixture and soal until all rust is removed (usually takes 24 - 72 hours)
- When all rust has been removed, drain the mixture and flush the system with clean, fresh water.

The entire rust removal operation can be carried out without the need for any costly or specialised equipment.

**NB:** It is important to use fresh solutions for each different metal to be cleaned.

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