

Technical Bulletin

Descal P

Rust Remover From Ferrous Metal

Product Description:

The scope of this technical bulletin is primarily the removal of rust and scale from ferrous metals with simultaneous preparation for paint adhesion.

However Descal P has many other uses: General purpose acid cleaner. Descaler for industrial / commercial and kitchen usage. Fiberglass and gel-coat cleaner, particularly marine applications.

AQIS APPROVED UNDER CATEGORY 4 FOR USE AS AN ACID CLEANER. It is described as: Concentrated solvent/acid cleaner, slightly viscous liquid. Contains: Phosphoric Acid

Application:

For immersion process or wipe on - wipe off process.

- Miscible with water in all proportions.
- DO NOT lose strength on exposure to air.
- Unlimited shelf life.
- Non flammable.

Rust Removal

No matter how durable a paint film is, it is only as strong as its bond to the metal. Should it chip, peel, blister, or crack because of improper surface preparation, rusting will set in and eventually make the part unserviceable.

Rust may be removed by manual or mechanical methods such as wire brushing, scouring with steel wool, or sandblasting. These methods are slow, involve the danger of damage to the surface being treated and are often difficult to carry out efficiently.

Certain mineral acids have been used for rust removal. They have their own special fields of application. However, their use involves certain disadvantages such as fuming.

A Castle Chemicals DESCALE P treatment not only removes rust but also passivates and conditions the surface of the metal for painting. The durability of the paint film is thereby improved. Chemically treated surface is desirable.

Bare metal is often too smooth to offer an adequate bond for a paint film. For superior paint adhesion, plus resistance to corrosion, metal surfaces should be given a phosphate treatment. This treatment provides chemical reaction with the metal to produce an adherent, passive, moisture resistant coating. While DESCALE P does not provide all the benefits of a true phosphate coating, it does provide some of the advantages, along with the rust and scale removal.

Fiberglass Cleaning

DESCALE P is safe to use on fibreglass, gel coat, plastic and painted surfaces as found in marine / boating applications. (We would always recommend a small trial area first however.)

It is particularly effective at removing waterline and rust stains, as well as other marine / salt deposits.

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Apply neat or diluted up to 20:1 with brush or cloth, allow sufficient contact time to remove deposit / stain, rinse / brush clean with fresh clean water. As the Descale P is a particularly effective cleaner, it can leave surfaces clean, but susceptible to restaining, in these instances, we recommend a sealing polish be applied to complete the cleaning operation.

Food Safety Statement/Fitness For Purpose:

With regard to the use of this product as a cleaner and / or sanitiser that may have incidental contact with food:

- 1) The raw materials / ingredients of this product are permitted as 'processing aids' as listed under clause 12 of the Food Standard Code 1.3.3 (Food Standards Australia New Zealand FSANZ) or
- 2) Are Generally Regarded As Safe (GRAS) according to the US Food and Drug Administration (FDA) or are recognised in the US Code of Federal Regulations (CFR) Title 21 part 178 as indirect food additives.
- 3) An FFP - Fit For Purpose Statement is available for this product when used in an export meat facility.

When used in accordance with the directions described in this product technical bulletin, this product complies with these recognised food safety parameters.

SHELF LIFE: As a quality assured manufacturer, Castle Chemicals has a stringent Quality assurance programme. As part of this regime, the label on this product shows a batch number and date of manufacture. This product has a shelf life of 24 months from the label printed date of manufacture. This information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Castle Chemicals assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of material.

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