



RUST REMOVER™

DESCRIPTION

RUST REMOVER is a concentrated aqueous liquid solution consisting of a blend of synergetic antioxidants and passivators. It is used to remove rust from any steel surface area and rust stains from brass, copper, stainless steel, wood, ceramic and aluminum surfaces, painted or not. Additionally, it contributes to the rust proofing of metals before any painting or coating application.

ADVANTAGES AND CHARACTERISTICS

- ◆ Readily removes rust and rust stains from metal and non-metal surfaces.
 - ◆ Protects and keeps surfaces free from corrosion.
 - ◆ Removes and prevents flash and light rust due to passivation.
 - ◆ Acts as a rust proofing agent before the application of paints or coatings.
 - ◆ Non-flammable, does not affect rubber or plastic compounds.
 - ◆ May be used with a specific range of other cleaning products.
 - ◆ Cost effective, easy to apply and use.
- ▶ **RUST REMOVER** is not harmful to the marine environment as per MARPOL MEPC 63 Annex V Amendment [MEPC. 71/17/Add.1 Annex 21, Resolution MEPC 295 (71)].

PHYSICAL PROPERTIES

RUST REMOVER is a non-flammable mixture of special acids, passivators and surfactants.

Appearance/Color	: Clear, colorless liquid
Specific gravity	: 1.20 - 1.25 gr/cm ³ at 20°C
pH value	: 1.2 - 2.5
Solubility in water	: Complete
Odor	: Odorless

PACKAGING

Order Number	: 833027 (30 ltrs)
Container	: Plastic jerrican

APPLICATION AND USE

A. Dosing Procedure

The quantity of **RUST REMOVER** to be used cannot be directly specified, since it depends on the cleaning results desired and the situation at hand. The user is the one responsible to regulate the quantity needed. However, when the cleaning application is determined, **RUST REMOVER** must be used diluted with fresh water with a percentage concentration ranging between 10–50% depending on the desired strength of the solution.

Note that a 10% solution is sufficiently strong and it can be used for most general/everyday situations involving rust.

The 50% solution is recommended when we have very difficult cases, involving areas that are very heavily encrusted with rust.

B. Cleaning Procedure

Before application, when the affected area has been determined, ensure the absence of oil, grease, dirt or other foreign matter. Then shake the **RUST REMOVER** well and prepare the desired concentration solution.

The solution may now be applied either by brushing and/or injection.

Smaller parts may be immersed directly into the prepared solution.

In all of the above situations, you must allow **RUST REMOVER** to act for 20–40 minutes and then rinse thoroughly with high or regular pressure fresh water.

- ▶ **Note** that in cases for where **RUST REMOVER** has been specifically used to rust proof an area, before it is to be painted or coated, there is no need to rinse with water.



! SAFETY AND HANDLING

HANDLING	Handle with care. Store in a dry, cool and well ventilated environment.
SAFETY	IMMEDIATE ACTIONS
Eye Contact	Avoid Eye contact. Otherwise, flush with plenty of water for a few minutes. Seek medical attention.
Skin Contact	Avoid Skin contact. Otherwise, wash contaminated area thoroughly with water. Seek medical attention.
Inhalation	Avoid inhalation of vapors. Otherwise, seek fresh air source at once. Seek medical attention
If Swallowed	Avoid ingestion. Otherwise, consume a considerable quantity of water. Do not induce vomiting. Seek medical attention.
GENERAL INSTRUCTIONS	Avoid spillage, splashing and mishandling. Wear suitable protective clothing, gloves and eye/face protection before using the product.

 **Read the Material Safety Data Sheet before using this product.**

For detailed information on safety and health, please refer to Material Safety Data Sheet and/or Product Label.

MARICHEM MARIGASES Worldwide Services or any subsidiary or associated companies warranties of merchantability and competence, if any, along with any expressed warranties concerning this merchandise, shall not be actionable or pertinent or effective if the good is used contrarily or differently to the directions herein and in no other way due to impending hazards from inappropriate use of the good explained herein. Merchandise might vary insubstantially depending on country of origin. The information provided concerning merchandise is exclusively presented to the customer.