



Industrial Rust Remover Technical Data Sheet

Product Description

Industrial Rust Remover is a highly effective, fast-acting formula designed to safely and efficiently remove rust, scale, and corrosion from various metal surfaces. This advanced chemical solution penetrates deeply into rusted and corroded areas, breaking down iron oxide and leaving the surface clean, smooth, and ready for further treatment or coating. It is suitable for use on a wide range of metals, including steel, iron, and cast iron, making it ideal for both industrial and commercial applications.

The product's unique formulation combines strong yet safe rust-dissolving agents with corrosion inhibitors, ensuring that treated surfaces are protected from future oxidation. Industrial Rust Remover is non-abrasive, ensuring that delicate surfaces and finishes are not damaged. It works quickly to eliminate rust from components, machinery, tools, vehicles, and other metal items, providing users with a time-saving solution for rust removal and surface preparation.

This rust remover is particularly beneficial in environments such as manufacturing plants, automotive workshops, construction sites, and maintenance facilities where metal surfaces are frequently exposed to moisture, chemicals, and wear. It also helps improve the longevity and durability of equipment by preventing the further spread of corrosion. Additionally, the product is easy to apply and doesn't require special equipment, making it an accessible solution for both professional and DIY users.

Industrial Rust Remover is also biodegradable, making it an environmentally friendly option for rust removal. It is safe to use on a wide range of metal surfaces without the need for harsh abrasive methods or excessive scrubbing, reducing labor time and increasing efficiency. Its versatile nature means it can be applied to tools, heavy machinery, automotive parts, pipelines, and structural elements to restore their function and appearance.

Recommended Use

- Metal Surface Cleaning:** Industrial Rust Remover is ideal for cleaning rust, corrosion, and scale from all types of metal surfaces, including steel, iron, copper, and alloys. It works on tools, machinery, automotive parts, and structural metal components, removing rust effectively without damaging the surface.
- Restoring Industrial Equipment:** In manufacturing and industrial facilities, equipment such as conveyor belts, steel frames, gears, and motors are often subjected to environmental conditions that lead to rust formation. Using this product regularly can help maintain these machines and prevent further degradation.
- Automotive and Heavy Equipment Maintenance:** The automotive industry benefits greatly from Industrial Rust Remover as it quickly eliminates rust from parts such as chassis, exhaust systems, and engine components. It is also highly effective for removing rust from heavy equipment like construction machinery, ensuring proper maintenance and safety.
- Pipelines and Storage Tanks:** Industrial Rust Remover is an excellent solution for cleaning rust and scale from pipelines, tanks, and other storage containers in industries such as oil, gas, and water treatment. It ensures that these vital components remain free of corrosion and maintain operational efficiency.
- Surface Preparation for Coating:** Before applying new coatings, paints, or protective layers to metal surfaces, it's essential to remove any existing rust and corrosion. This remover helps prepare the surface by cleaning off oxidation, ensuring that coatings adhere properly and last longer.



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6. **Marine Applications:** Ships and marine equipment are frequently exposed to saltwater, which leads to rust and corrosion. Industrial Rust Remover is effective in cleaning and protecting metal surfaces of boats, marine equipment, and infrastructure exposed to harsh marine environments.
7. **Tool Maintenance:** For industrial and household tools that have been exposed to moisture or neglect, Industrial Rust Remover quickly eliminates rust, extending the life of tools and making them more efficient for future use.
8. **Metal Furniture and Fixtures:** Over time, metal furniture, shelving units, and fixtures may accumulate rust. Using Industrial Rust Remover restores these items, improving their aesthetic appeal and functionality.
9. **Preventive Maintenance:** Regular use of the product in high-risk areas helps prevent rust buildup and corrosion, prolonging the life of industrial assets and reducing costly repairs or replacements.

Technical Data Specification

- **Appearance:** Clear to slightly yellow liquid
- **Odour:** Mild chemical odour
- **Density:** 1.2–1.4 g/cm³
- **pH Level:** Acidic (pH 2-3)
- **Flash Point:** Not applicable (aqueous solution)
- **Solubility:** Soluble in water
- **Biodegradability:** Biodegradable
- **Packaging:** Available in 1L, 5L, and 20L containers
- **Storage:** Store in a cool, dry place away from heat and sunlight

Dosage, Addition, and Method of Application

1. **Dosage:**
 - **Standard Application:** For light to moderate rust, apply the Industrial Rust Remover directly onto the rusted surface, either undiluted or diluted with up to 10% water.
 - **Heavy Rust Removal:** For extensive rust or heavy corrosion, use the remover undiluted for maximum effect. For larger surfaces, adjust the dosage according to the surface area being treated.
2. **Addition:**
 - No specific additives are required. The product is designed to be effective on its own for most rust-removal needs.
 - For larger applications, it may be diluted with water, depending on the severity of rust and contamination.
3. **Method of Application:**
 - **Spray Application:** Use a spray bottle or pressure sprayer to apply the product evenly onto the rusted surface. Ensure complete coverage and allow the product to sit for 10-20 minutes. For thicker rust deposits, you may need to let it sit for a longer period. After the rust begins to dissolve, use a scrub brush or cloth to remove the residue.
 - **Brush or Cloth Application:** For smaller or more delicate areas, apply the remover with a clean brush or cloth. Rub the product onto the rust, allowing it to sit for several minutes to penetrate and break down the rust.
 - **Soaking Method:** For heavily rusted parts like tools, nuts, bolts, and smaller metal components, submerge the items in a container filled with Industrial Rust Remover. Let the parts soak for 30 minutes to several hours, depending on the rust thickness.



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- **Post-application:** After the rust is removed, rinse the treated surface with clean water to remove any excess remover. Dry the surface thoroughly, especially if it will not be painted immediately.

Cleaning Time: Typical cleaning time ranges from 10-20 minutes for light rust and up to several hours for heavy rust or scale buildup.

Safety Instructions

1. Personal Protection:

- Always wear appropriate personal protective equipment (PPE), such as gloves, safety goggles, and protective clothing when handling the product.
- In areas with poor ventilation, use a respirator or face mask to avoid inhaling any vapors or mist produced by the remover.

2. Handling:

- Avoid contact with eyes and skin. If the product gets into the eyes, rinse immediately with plenty of water for at least 15 minutes. If irritation persists, seek medical attention.
- If the product comes into contact with skin, wash thoroughly with soap and water. Prolonged or repeated skin contact may cause irritation.
- Do not ingest the product. If swallowed, seek immediate medical attention.

3. Storage:

- Keep the product in its original container, tightly sealed, and store in a cool, dry area away from heat, direct sunlight, and any sources of ignition.
- Ensure containers are securely stored to prevent accidental leaks or spills.

4. Disposal:

- Dispose of any unused product and empty containers according to local environmental and waste disposal regulations. Do not discharge the product into the environment, sewers, or water systems.
- Use a licensed waste disposal service for the removal of hazardous chemicals.

5. First Aid:

- **Inhalation:** Move the affected person to fresh air and provide oxygen if necessary. Seek medical attention if symptoms persist.
- **Skin Contact:** Wash with soap and water. If irritation continues, consult a physician.
- **Eye Contact:** Flush immediately with water for at least 15 minutes. Seek medical attention if irritation persists.
- **Ingestion:** Do not induce vomiting. Drink water and seek medical help immediately.

Industrial Rust Remover is a highly efficient, easy-to-use solution for removing rust and corrosion, ensuring metal surfaces remain clean, functional, and protected. Its non-abrasive, biodegradable formula makes it an ideal choice for various industrial applications, saving time and labor while maintaining operational efficiency.