

RUST-ORATION™ Wipes/Liquid



RUST-ORATION WIPES AND LIQUID WORK AGAINST RUST FOR ALL APPLICATIONS

- Liquid - Removes Deep Rust
- Wipes - Removes Light Surface & Flash Rust

ORDERING INFORMATION

SW100ROR - 100 ct. Canisters, 12 Per Case
 FR100ROR-12 - Foil Refill for Canister, 12 Per Case
 PT6ROR - 1 Pint Bottle, 6 Per Case
 GA6ROR - 1 Gallon Container, 6 Per Case
 DR05ROR - 5 Gallon Drum
 DR55ROR - 55 Gallon Drum

For Additional Product Information:
www.jnj-industries.com

Industries Using RUST-oration

- | | |
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| INDUSTRIAL
Metal Working
Agricultural
Injection Molding
Milling
Machining
Tool & Die
Paint & Coatings
Plating
Oil Fields
Foundries
Welding Shops
Metal Stamping | RESTORATION
Autos
Antiques
Tools
Furniture
Home Repair
Lawn & Garden Tools
Tractors
Boats
Motors
Toys
Toy Train Sets |
| MILITARY & POLICE
Armoring
Gun Repair
Forensics
Vehicle Maintenance
Marine Maintenance
Launch Pads | TRANSPORTATION
Aerospace
Trucking
Auto Maintenance
Machine Shops
Railway Maintenance
Engine & Car Parts
Re-manufacturing |

JNJ INDUSTRIES

290 Beaver Street
 Franklin, MA 02038
 800-554-9994 or 508-553-0529
 Fax: 508-553-9973 * e-mail: sales@jnj-industries.com
www.jnj-industries.com

The Industry Standard in Quality and Performance

JNJ's commitment is not only to provide the highest quality products possible, but to make them available to you for fast delivery through a network of local, national and international distributors.

ELECTRONICS & INDUSTRIAL EQUIPMENT, SUPPLIES & CLEANING PRODUCTS

2009



800-554-9994

RUST-ORATION™ Wipes/Liquid

- Dual Purpose Wipes - Remove Light Surface & Flash Rust
- Liquid - Removes Deep Rust
- Excellent Rust Inhibitor - prevents rust from forming up to 6 weeks

PRODUCT DESCRIPTION:

JNJ Industries' GlobalTech® RUST-ORATION™ Wipes have been proven effective to remove light surface and flash rust on all types of mild steel and iron. It is safe on all surfaces and will not harm copper, brass, aluminum, plastic, rubber or vinyl. These unique wipes work against rust in two distinct ways; first, as a rust remover through wiping, rubbing, and/or wrapping; secondly, as a rust inhibitor, by leaving a protective coating on a clean area to prevent additional rust from forming for up to 6 weeks depending on heat and humidity. RUST-oration Liquid is extremely effective in the removal of deep rust.

How It Works:



RUST-oration works through selective chelation. This is a process in which a large synthetic molecule forms a bond with metals and holds them in solution. Most chelating agents bind many different metals. The active ingredients in RUST-oration bonds to iron exclusively. It can remove iron from iron oxide but is too weak to remove iron from steel where the iron is held much more strongly. Once the chelating agent has removed the iron, a sulfur bearing organic molecule pulls the iron away from the chelator and forms a ferric complex which remains water soluble. This frees the chelating agent to remove more iron from the rust.

INDUSTRIES USING RUST-ORATION :

- Industrial - metal working, machining, plating, oil fields, foundries, welding shops, metal stamping
- Military & Police - armoring, gun repair, forensics, vehicle and marine maintenance, launch pads
- Transportation - aerospace, trucking, auto and railway maintenance, machine shops, part remanufacturing
- Restoration - autos, antiques, tools, furniture, home repair, tractors, boats, motors, toys, toy train sets

PRODUCT HIGHLIGHTS, ENVIRONMENTAL & REGULATORY COMPONENTS:

- Can be continually reapplied to provide a protective coating that helps prevent future oxidation
- Water soluble, no fumes or offensive odors
- Non-toxic, non-corrosive and non-flammable
- Safe on all surfaces - will not harm unrusted steel, copper, brass, aluminum, plastic, rubber, vinyl, PVC, Viton, clothing, glass, safe on anodizing, powder coating and paints that do not contain oxides
- Contains no petroleum products, silicones, silicates, chlorine, acids, alkalis, bases, solvents or other toxic ingredients
- VOC Free and contains no HAPS
- Liquid is biodegradable
- NSF (National Sanitation Foundation) approved

**RUST-ORATION WIPES AND LIQUID
 WORK AGAINST RUST FOR
 ALL APPLICATIONS**

TECHNICAL DATA:

INGREDIENTS: Specific identities withheld under Trade Secret Status

FREEZING POINT °C	BOILING POINT °C	FLASH PT °F TCC	PH	VAPOR DENSITY (air=1)	VAPOR PRESSURE	SPECIFIC GRAVITY (water=1)	EXPLOSION PROPERTIES	SOLUBILITY IN WATER
same as water	same as water	N/A	6.1	N/A	N/A	1.05	N/A	complete

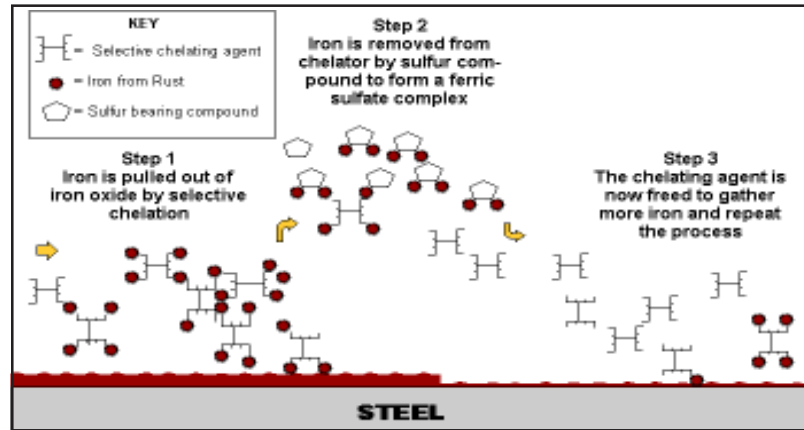
HAZARD RATING: Fire: 0, Toxicity: 0, Reactivity: 0 HAZARD CLASS: None
 IN ALL CASES REFER TO THE MATERIAL SAFETY DATA SHEET (MSDS)

800-554-9994 / 508-553-0529 / fax 508-553-9973
www.jnj-industries.com sales@jnj-industries.com

Q) How is RUST-oration packaged? Available in 100 (6" x 9") count saturated wipe canisters, foil refill packs, pints, gallons, 5 and 55-gallon drums.

RUST-ORATION WIPES AND LIQUID WORK AGAINST RUST FOR ALL APPLICATIONS

Q) THE NUMBER ONE MOST FREQUENTLY ASKED QUESTION - How does it work? RUST-oration works through selective chelation. This is a process in which a large synthetic molecule forms a bond with metals and holds them in solution. Most chelating agents bond with many different metals, but the active ingredient in RUST-oration bonds to iron exclusively. It can remove iron from iron oxide but is too weak to remove iron from steel where the iron is held much more strongly. Once the chelating agent has removed the iron, a sulfur bearing organic molecule pulls the iron away from the chelator and forms a ferric complex which remains water soluble. This frees the chelating agent to remove more iron from the rust.



in contact with the rust underneath. Soil residue will also shorten the life of RUST-oration. Heavy greases and cosmoline should be removed prior to derusting.

REMOVES DEEP RUST ON ALL TYPES OF MILD STEEL AND IRON

Q) Will RUST-oration remove bluing and other oxide finishes? YES. RUST-oration will remove these in about 30 minutes. Anodizing will not be removed. Powder coating and paint will not be removed as long as the paints do not contain oxides.

Q) I get a black film on some parts after using RUST-oration. What is it and how do I remove it? The black is carbon from the steel. Generally high carbon steel is used in making items that are flexible (e.g. springs, saw blades). High carbon steel and tool alloy steel items when derusted will have a darker appearance.

Q) Can I spray RUST-oration on the rusted area? NO. RUST-oration works by immersion or wiping. When sprayed on a surface, the water in the solution will evaporate before derusting can be completed. It can however be sprayed or wiped on as a rust preventative or spray to rewet wrapped saturated wipes on areas too large to soak, hard to reach or bulky areas.

Safe On All surfaces

NSF (National Sanitation Foundation) Approved
Non-toxic / Non-corrosive / Non-flammable / VOC Free

Q) Can I use RUST-oration to clean brass, copper and aluminum? NO. It will not clean nor will it damage any of these metals. It will also not harm rubber, plastic, clothing or glass.

Q) Do parts have to be completely clean before immersion or wiping? NO. RUST-oration has detergents that penetrate oils and dirt. However, surface contaminants do slow the process. The soils must be penetrated before RUST-oration can come

Q) What are the primary functions of the wipes? 1) wipes remove light surface and flash rust, especially on hard to reach areas 2) excellent rust inhibitor - prevents rust from forming up to 6 weeks.

Q) What are the advantages of a wipe? Each wipe with Rust-oration costs pennies to use, the handy canister allows you to dispense the right amount of chemistry where and when you need it - excellent for field service kits and maintenance vehicles.

Q) Are wipes easier to use on hard to reach and bulky areas? YES. By isolating a specific rusted area, or if a surface is too large to soak, you can wrap or cover it with layers of saturated wipes. Cover the wipes with plastic wrap and tape the wrap down to prevent moisture from escaping. Remove in 24 hours and rinse the area with water.

Q) Will the wipes remove light surface rust that forms overnight? YES. The wipe will remove light surface rust that forms nightly from heavy humidity and high temperatures with aggressive scrubbing.

Q) How is the wipe used as rust inhibitor? Once the rust is removed, rinse item with water. Apply RUST-oration with a clean fresh wipe to prevent rerusting and allow to air dry - treat new surfaces before rusting starts.



Q) How are wipes disposed of? They can be conveniently treated as disposed rubbish, only the iron content will dictate how it can be disposed of. RUST-oration is completely biodegradable and safe.

Q) Is the liquid easy to use on deep rust? YES. Preclean the item to remove oil and dirt. Rinse the item and immerse fully for 20 minutes. Check progress periodically. Once rust is removed, rinse with water. To prevent re-rusting dip back into solution and allow to air dry.

Q) How long does RUST-oration last? One gallon of RUST-oration will remove the rust from 300 pounds of moderately rusted steel. If any of the bath evaporates, simply replace it with fresh tap water.

Q) If rust remains can the procedure be repeated? ABSOLUTELY. Deep rusted parts (5mm or deeper) may require overnight soaking - the liquid can be used over and over until performance drops off.

Q) How can I use it on a surface too large to soak? Wrap or cover it with layers of saturated wipes. Cover the wipes with plastic wrap and tape the wrap down to prevent moisture from escaping. Remove in 24 hours and rinse the area with water. Repeat if additional rust remains.

Q) How do I know when the bath is spent? The bath will turn completely black and will not perform.

Q) How do I dispose of the spent solution? When RUST-oration is spent, only the iron content of the solution will dictate how it can be disposed of. In most cases it can be dumped into the city sewer.

RUST-ORATION WIPES AND LIQUID

This is the outside portion of a heavily rusted water pump. It was soaked in RUST-ORATION for four hours.

