



# JNJ INDUSTRIES®

## TECHNICAL DATA SHEET

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### RUST-ORATION™

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

#### 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. **Dual action wipes:** feature a smooth side for lighter clean-ups and a textured side for tougher jobs. **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.

RUST-ORATION

#### 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 unruined 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

#### TECHNICAL DATA:

**INGREDIENTS:** Specific chemical identities withheld under Trade Secret Status

% VOLATILE (by weight)	BOILING POINT °C (water)	FLASH PT °F TCC	PH	VAPOR DENSITY (air=1)	VAPOR PRESSURE (mm mercury)	SPECIFIC GRAVITY (water=1)	EVAPORATION RATE ether=1	SOLUBILITY IN WATER
<85.0	same as water	N/A	6.1	N/A	N/A	1.05	>1	complete

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

**WASTE DISPOSAL:**

For disposal methods, consult a licensed waste management firm or the appropriate local, state and federal agencies in your area. JNJ provides Foil Refill Packs for our SuperSaturated SmartWipe® canisters to help reduce environmental waste.

**STORAGE AND SHELF LIFE:**

JNJ Industries will guarantee shelf life of 12 months without breakdown, actual may be longer. Shelf life expectancy is from date of shipment. Store in room temperature.

**CONVENIENT PACKAGING:**

*...a dispenser that delivers solutions.* RUST-ORATION, like all GlobalTech solvents, is offered in several packaging styles to make it convenient for users to apply the product in their respective applications. Saturated wipes, Foil Refill Packs, spray bottles, gallons, and drums are the available choices.

**RUST-ORATION ORDERING INFORMATION:**

JNJ part numbering and packaging are as follows:

SW100ROR	100-wipe canister of SuperSaturated SmartWipes 6"x9", 12/case
FR100ROR-12	100-wipe replacement log in vacuum sealed Foil Refill Packs - 12/case
PT6ROR	1 pint bottle, in antistatic plastic, 6/case
GA6ROR	1 gallon container, in high density polyethylene (HDPE), 6/case
DR05ROR	5 gallon drum in high density polyethylene (HDPE)
DR55ROR	55 gallon drum in high density polyethylene (HDPE)

**ADDITIONAL JNJ PRODUCTS OF INTEREST:**

- Heavy Duty Degreaser
- Transit Clean w/no freeze formula
- Polymer Encapsulating Absorbents
- Dry Wipes
- Isopropyl Alcohol
- Specialized Tooling Products / Industrial Cleaners
- Converting Services
- SelectaWipes
- Aqueous Cleaners
- Citrus Hand Cleaner w/ Chelator
- Cleaning Rolls
- Skin Protection

GlobalTech Technical Data Sheets are published based on sources believed to be accurate. JNJ Industries does not guarantee the accuracy of the information and does not assume liability in connection with any damages that may be incurred while using the product. For more information see the corresponding or MSDS or contact:

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