



NFRI™

Rust Inhibitor Fluid Technical Information Sheet

Description & Application:

NFRI is the trade name for a special blend of nitrite free, water dilutable corrosion inhibitors and oils that are particularly suitable for ferrous metals.

NFRI is ideal as a light duty temporary corrosion inhibitor and as an additive to aqueous pressure testing systems to prevent rusting of parts and equipment.

Primary features attributable to NFRI are:

- Prevents corrosion of ferrous parts during intermediate manufacturing stages and storage;
- Saves expensive rectification costs;
- Safe on wide range of metals and plastics.

Applications

N.F.R.I. can be used as part of any manufacturing process where rust and corrosion may become detrimental.

The product is highly dilutable and provides temporary protection when used during pressure testing of valves, pipe work and vessels.

It can also be used as a rinse after machining components that may not immediately pass on to another process.

Compatibility

NFRI may be safely applied to steels and is compatible with a wide range of plastics and elastomers at room temperature, however specific materials should be tested prior to exposure.



Safer
Solutions
For Industry

Health and Safety

NFRI is classed as irritant and it may cause irritation of eyes, nose, skin and the respiratory tract. It is non-flammable and is neither a known or suspected carcinogen. Do not expose fluid containers to temperatures in excess of 50 °C or place in direct sunlight.

See Material Safety Data Sheet for details.

Typical Properties

Appearance	Hazy, yellow coloured liquid
Density @ 20 °C	0.994
Solubility	Emulsifies in water, Soluble in most organic compounds
pH	9.2 units (3% solution)
Flash Point, (Closed Cup, °C)	None

Storage life in original, unopened containers, at between 0 °C and 35 °C (32° to 95 °F), is not less than 5 years.

Process application

The product should be used at:

- A concentration of between 20 and 100 g/l (3.2 to 16 oz/US gal)
- Ambient temperature.

The concentration is dependant upon the severity of the environment and the desired protection timescale.

Fluid process controls are not normally required.

Application:

Apply the diluted fluid using either spray or dip equipment

Dip tanks should be topped up as necessary to compensate for fluid losses.

The fluid may be used within commercially available spray equipment, however, users will need to confirm the suitability of any plastics or elastomeric/rubber seals within the spray equipment for use with this product

Removal of film coating:

Where required, the film may be removed using suitable solvents, e.g. white spirit, kerosene, petroleum spirit, chlorinated solvents, Leksol, Toxfree, etc.

Removal may be by hand cleaning, vapour degreasing or ultrasonic immersion cleaning. Alkaline cleaning may also be successfully employed.

CONTACT DETAILS:

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Packaging Details:

NFRI is available in:

- 210 Litre drums;
- 25 Litre containers (metal or resistant plastic).

Approval Data for NFRI

Approvals.

NFRI has been approved to/by:

Ford Motor Company.