

PRODUCT DATA

RUST PREVENTIVE 2923-41-01

Rust Preventive 2923-41-01 is a water emulsifiable rust preventive which provides excellent humidity protection. The product is readily emulsifiable in either hard or soft water. No special mixing procedures are required.

An emulsion of **Rust Preventive 2923-41-01** will deposit a thin, protective film on treated surfaces. The thin film will typically provide corrosion protection, on plain carbon or low alloy steel, for nine months indoors. Film removal is accomplished with hot water and detergent.

Rust Preventive 2923-41-01 is formulated with a combination of ingredients that provide a greater resistance to microbial degradation of the fluid.

APPLICATIONS

Rust Preventive 2923-41-01, emulsified in water, provides excellent in-plant rust protection. In-process inventory can be protected for up to nine months, even in the most humid plant conditions. Flammable solvent-type rust preventives and their hazards are eliminated when emulsified **Rust Preventive 2923-41-01** is used.

Parts can be dipped into an emulsion of **Rust Preventive 2923-41-01**, or because of the product's low foaming tendency, parts can be successfully treated in the final stage of power spray washers.



Houghton International Inc.

Madison and Van Buren Ave., P. O. Box 930, Valley Forge, PA 19482-0930

(610) 666-4000 Telefax (610) 666-1376

As a final preservative of blackened or phosphated parts, **Rust Preventive 2923-41-01** has received wide acceptance. The thin film deposited by **Rust Preventive 2923-41-01** results in finished parts without an "oily" feel.

For most dipping applications, a dilution of 9 parts of water to 1 part of **Rust Preventive 2923-41-01** is recommended. For power spray washer application, the maximum concentration should be 1 part to 20 parts water.

TYPICAL PHYSICAL PROPERTIES

| | |
|---|-----------------|
| Appearance, Neat | Amber fluid |
| Specific Gravity @ 60°F (15.5°C) | .92 |
| Viscosity @ 100°F, SUS | 268 |
| Flash Point, °F, COC | 295°F typical |
| pH @ 10% | 9.45 |
| Humidity Protection, 1010 Steel treated with a 10% Emulsion | 14 days typical |

CONCENTRATION DETERMINATION (Rust Preventive 2923-41-01 Emulsions)

Apparatus and Reagents

50 ml pipet

Babcock bottle (Kimble 15066)

- 1:1 dilution sulfuric acid

* When preparing 1:1 dilution of sulfuric acid, always add acid to water slowly. Mixture will become hot. Handle with care.

Procedure

1. Pipet 50 ml of the emulsion into a Babcock bottle.
2. Add 1:1 dilution of sulfuric acid up to 80% mark.
3. Place bottle in oven at 140-150°F overnight.
4. Calculate the concentration of rust preventive.
% Concentration = cc of oil* x 2

* **On a Babcock bottle each division equals .2 cc**

INSTRUCTIONS FOR USE

Rust Preventive 2923-41-01 mixes easily with water. Upon addition of the required amount of **Rust Preventive 2923-41-01** to the water, a minimum of mixing is required to form a white emulsion. The product's performance is relatively unaffected by make-up water quality; either hard or soft water may be used.

If an emulsion of **Rust Preventive 2923-41-01** is left standing still for several days, a layer of oil and/or cream may form on the surface. Any separated oil is easily mixed back into the emulsion.

Emulsion of **Rust Preventive 2923-41-01** remain stable when hot; to a maximum temperature of 175°F.

SHIPPING INFORMATION

Rust Preventive 2923-41-01 is available in 55 U.S. gallon (208 liter) drums and in bulk.

SHIPPING CLASSIFICATION

Petroleum Oil - NOS

SHELF LIFE

One (1) year

STORAGE/HANDLING/DISPOSABILITY

No health or safety hazards exist when **Rust Preventive 2923-41-01** is stored, used and disposed of in accordance with instructions given on the Material Safety Data Sheet for this product.

WARRANTY

The information given here is considered to be correct and is offered for your consideration, investigation and verification. No warranties are expressed or implied, since the use of our products is beyond our control. Statements concerning the use of Houghton products are not to be construed as recommending the infringement of any patent.

EXPORT STATEMENT

This commodity and its technology are subject to the export control laws and regulations of the United States Government. Buyer agrees that it shall not make any disposition, by way of export, diversion, transshipment, re-export or otherwise, except as expressly permitted under United States law.

5/02