B-2 EMULSION INHIBITOR

METAL SURFACE INHIBITOR & COOLANT

B-2 is a surface cleaner and emulsion type corrosion inhibitor for metal surfaces. B-2 provides an economical product for use on all surfaces and over a wide temperature range.
(Room temp up to 160 F.)

ALSO USED AS A MACHINING & GRINDING FLUID FOR ALL METALS. B-2 provides a light oil film on the surface and very good in-process corrosion protection on metal surfaces.

B-2 is a light oily fluid which emulsifies in water.
PROVIDES UP TO SEVERAL MONTHS RUST PROTECTION AGAINST CORROSION WHEN USED AS DIRECTED.

Features & Benefits

- Corrosion protection to surfaces. Stops rust and stain Low oily residue, without tackiness.
- MEETS MINIMUM 10 DAY HUMIDITY CABINET TEST TO RED RUST.
  (Equates to 2-6 months or more of storage of steel parts in wwh environment).
- Good surface cleaning. Removes chips, fines and oils.
- Provides a stable emulsion which lasts a long time.
- Easily treated in waste water treatment facilities. Emulsions split easily.
- No odors.
- Non foaming. For use on all types of surfaces: steel, non-ferrous, plastic.

Physical Data

pH	8~
Product Type	OIL
Spec. Gravity	0.915
Lbs./gal.	7.63
Foam (0=Low; 9=High)	0
Shelf Life	10 years
Freeze Information	Not damaged by freezing

Typical Processing

1. Use at 2-25% by volume with water. (As inhibitor = 5- 25%) typical.
2. Use in spray washers or dip tanks.
3. Applied usually warm. 120-160 deg. F.
4. Time: As required to remove surface residues. 30 seconds and up.
5. 2-5% = 30 - 90+ days rust protection (dry warehouse conditions)
6. 5-15% = 2 - 4+ months rust protection (dry warehouse conditions)
7. 20 - 30% = 4-12+ months rust protection (dry warehouse conditions)
8. Can be easily removed with an alkaline wash if necessary.

Packaging

Container Type	Steel
Net Units	420
Tare Wt.	50
Gross Wt.	430
DOT_Name	Not regulated by DOT Not subject to IATA Regulations for Air
DOT Hazard	Not regulated
Tariff ID	

Use Parameters

Concentration Range	2-20% by volume
Temperature Range	70-160 deg. F.
Time Range	30 Seconds and up
Agitation	As Necessary

Waste Disposal

Do not dump direct to sewer, Contains Mineral oils.

Holding Tank Materials of Construction

Steel, stainless or poly.

Other Information

It is important that the OSHA DATA, "Material Safety Data Sheet" be carefully read and reviewed with the users of this product. OSHA data is required to be posted in the work area by law.

Testing, Operating & Trouble Shooting Data

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Refractance = A Direct Reading: On American Optical Hand Held Unit Or Equivalent. 2% = 2.0 Units, 5%=5.0, Etc.
Refractometer # = % By
Volume
Approved Under Ford Tox # 002618, Spec M5b-53-a.
Ph Maintain 7.2-9.9 Use Potash 45% Or Tronex Booster 45 (use Dilute Material When Using High Alkali Products. Example Make A 2-5%
Solution And Add Slowly.)
Titration (acid Split):
Note: Exacting Discipline Must Be Used When Obtaining A Sample. Extract Samples From Below The Solution Surface (2-3 In.) To Assure
That Floating Oils, Soils, Or "tramp" Oils Are Not Included In The Sample. This Would Cause Test Results That Are Not Accurate.
1) Transfer 50 Mls Into A Graduated Cylinder
2) Add 25 Mls Of Hydrochloric Acid. Stir & Mix Well....
3) Allow 1/2 - 12 Hours For Solid Oil Float To Form.
4) The Number Of Mls Of Solid Oily Fluid Times 2 = % Concentration.
Note: It Is Important That The Split Floating Layer Is Solid Oil. In Some Cases An Opaque Appearance Indicates Entrapped Sludge Or Water
In The Layer. It Should Look Like Motor Oil.
If Not, Add 5 Mls Of 99% Ipa Or Butyl Cellosolve, Or A Glycol To Help Split Water And Sludge From The Oily Layer, (stir Into Layer). (don't
Forget To Subtract The Number Of Mls Of Ipa Added When Doing Your Calculation. The Solvent Helps Extract The Oil From The Water).
(4/11/03: Ros)
Humidity Cabinet Testing Anti-rust Chart And Log (1/01)
Dilution Strength Humidity Cabinet Days Warehouse Storage Days.
2% B-55 In Water 2-4 20 - 30 Days
5% B-55 4-8 45 - 90
10% B-55 10-12 60 - 90
15% B-55 12-15 90+
20% B-55 (and Above)
Note: Concentrations Above 20 Will Provide A Slightly Oily Surface.

Our People. Your Problem Solvers.

For more information on this process,
please call us at 203.756.5521 or email: techservice@hubbardhall.com

Hubbard-Hall holds certifications for **ISO 9001:2015**, Responsible Distribution, as accredited by the **ACD** (Alliance for Chemical Distributors) and as a **Women-Owned Small Business**, as well as maintaining an association with **Omni-Chem**[136].