

EcoLine® 3220



PRODUCT DESCRIPTION

EcoLine 3220 is an exciting addition to our biodegradable line of products made with renewable resources. EcoLine 3220 is a 99% biobased ready-to-use temporary coating. This canola oil-based product offers a tenacious film that clings to metal surfaces providing excellent contact corrosion protection in storage and shipment. In addition, EcoLine 3220 provides long lasting vapor corrosion inhibition.

Made from renewable materials and containing canola oil as a carrier, this product is environmentally safe, has excellent thermostability, and has no effect on rubber, plastics, or paints.

EcoLine 3220 falls within the USDA BioPreferred Corrosion Preventative Catagory and is identified for Federal Agency Preferred Purchasing(www.biopreferred.gov).

EcoLine 3220 provides multimetal protection and lubricity in a variety of applications and is especially useful where application is required in freezing temperatures.

FEATURES

- Complete multimetal protection
- Environmentally friendly and biodegradable
- USDA Certified Biobased Product



- Safe for users
- VOC-free
- Provides universal corrosion protection
- Combines film-forming additives with VpCI®s
- Provides excellent anti-corrosion protection in high humidity atmospheres and chloride-containing environments
- Lubricates parts
- Good replacement for mineral oil and flammable solvents
- Low pour point (-18°C)

TYPICAL APPLICATIONS

- Machines and equipment
- Maintenance
- Temporary coating for storage and shipment
- Wire
- Sheet metals
- Pipe
- Flanges
- Gears
- Fabricated or machined parts
- Ballast tank preservation

METALS PROTECTED

- Carbon steel
- Aluminum and alloys
- Copper and alloys
- Cast iron
- Galvanized steel
- Stainless steel

PLASTICS AND ELASTOMERS

These samples have been tested and are compatible:

- Buna N
- Butyl Rubber
- Neoprene
- Silicon Rubber
- Teflon
- EDPM*

*Has to be tested in specific temperature conditions



APPLICATION

EcoLine 3220 is a ready-to-use product and can be applied by dipping, spraying, or brushing at many stages of metal fabrication or for storage and shipment.

EXAMPLE OF INSTALLATION FOR PROTECTION OF BALLAST TANKS

Pump down after pressure washing and removing all foreign materials from the bottom. Use 400-600 sq. ft. per gallon (9.8-14.6 m²/L) of EcoLine 3220 as a basis to get the required amount. Pump the required amount of EcoLine 3220 into the tank and fill with water. This will float the EcoLine 3220; coating every square inch of the tank's interior including ring stiffeners, girders, piping, and side shell with a sufficient amount of product to protect against corrosion. Now that the tank is protected the water may be pumped to the normal ballasted level.

TYPICAL PROPERTIES

Appearance Clear amber liquid

Non-volatile Content 97-99%

Density 7.6-7.7 lb/gal (0.91-0.92 kg/l)

ASTM D-1748 400 hours

STORAGE AND PACKAGING

EcoLine 3220 is packaged in 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes, and bulk. The product should remain sealed during storage. The shelf life of EcoLine 3220 is up to 24 months.

FOR INDUSTRIAL USE ONLY
KEEP OUT OF REACH OF CHILDREN
KEEP CONTAINER TIGHTLY CLOSED
NOT FOR INTERNAL CONSUMPTION
CONSULT MATERIAL SAFETY DATA SHEET FOR MORE
INFORMATION

TOXICITY DATA

Fresh Water

 Rainbow Trout
 LC₅₀: 1498 mg/L

 OECD 203
 NOEC: 1000 mg/L

 96 hour
 LOEC: 1500 mg/L

 Daphnia magna
 LC₅₀: 5464 mg/L

 OECD 202
 NOEC: 4000 mg/L

 48 hour
 LOEC: 8000 mg/l

Selenastrum capricornutum NOEC: 100 mg/L

OECD 201 LOEC: 250 mg/L 72 hour IC₂₅: 129.3mg/L

(95% CI: 116.7-139.1 mg/L)

IC₅₀: 180.3 mg/L

(95% CI: 172.2-186.3 mg/L)

Sea Water

<u>M. bahia</u> NOEC: 3000 ppm Static renewal test LOEC: 5000 ppm (EPA/600/4-90/027F) LC₅₀: 3410 ppm

48 hour

M. berylina NOEC: 2160 ppm Static renewal test LOEC: 3600 ppm (EPA/600/4-90/027F) LC₅₀: >10,000 ppm

48 hour

NOEC-No Observed Effect Concentration LOEC-Lowest Observed Effect Concentration LC₅₀-Lethal Concentration 50% IC₂₅-Inhibition Concentration 25% CI-Calcineurin Inhibition

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4119 White Bear Parkway, St. Paul, MN 55110 USA Phone (651) 429-1100, Fax (651) 429-1122 Toll Free (800) 4-CORTEC, E-mail info@cortecvci.com Internet http://www.cortecvci.com

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Valdamark Limited Unit 13, 30 The Downs Altrincham, Cheshire, WP14 2PX, United Kingdom. valdamark@live.com Tel: +44 (0) 161 706 0388

