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 VpCl®’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 LC₅₀: 129.3 mg/L
(95% CI: 116.7-139.1 mg/L)
IC₅₀: 180.3 mg/L
(95% CI: 172.2-186.3 mg/L)

Sea Water
M. bahia NOEC: 3000 ppm
Static renewal test LOEC: 5000 ppm
(EPA/600/4-90/027F) LC₅₀: 3410 ppm
48 hour

M. berylia 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

LIMITED WARRANTY

All statements, technical information and recommendations contained herein are based on tests Cortec Corporation believes to be reliable, but the accuracy or completeness thereof is not guaranteed.

Cortec Corporation warrants Cortec® products will be free from defects when shipped to customer. Cortec Corporation’s obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify Cortec Corporation of the claimed defect within six months after shipment of product to customer. All freight charges for replacement products shall be paid by customer.

Cortec Corporation shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products.

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