



Zerust® Axxanol™ 46-BIO

CLEAN TECHNOLOGY THAT PROTECTS METAL FROM CORROSION

PRODUCT INFORMATION

Zerust® Axxanol™ 46-BIO is a bio-based, sprayable corrosion inhibitor preservative in the form of a light lubricant oil. It offers corrosion protection on exposed surfaces as well as in crevices and recesses for iron, steel, aluminum and related alloys. Axxanol 46-BIO is made from renewable vegetable oil, making it less flammable (flash point of 435°F/224°C) when compared with conventional mineral-oil based corrosion protective compounds (CPC). Axxanol 46-BIO protects for up to three months outdoors and one year indoors or under shelter.

Sprayable Cleaner Lubricant Preservative (CLP)

This environmentally friendly corrosion inhibitor is formulated to compare in performance to MIL-PRF-3150 medium preservative oils except for its viscosity. It is a light oil with a viscosity of 46 centipoise for better flow than conventional 100 centipoise MIL-PRF-3150 oils. Axxanol 46-BIO's light, viscous properties, optimize it for compressed-air spray application. It also compares favorably with MIL-PRF-63460 cleaner-lubricant-preservatives and light CPC grades of MIL-PRF-16173 except it is bio-based. Axxanol 46-BIO can be dip coated, brushed or wiped onto surfaces to leave a thin, transparent non-tacky film. It is ideal for applications such as cleaning and protecting equipment and machinery that is temporarily left outdoors.

FEATURES

- Bio-based oil from renewable resources
- Proven corrosion protection
- Easy-to-apply and sprayable
- Easy-to-remove with cleaners or biode detergent
- Non-staining

BENEFITS

- Supports environmentally responsible initiatives
- Reduces corrosion incidents
- Reduces need for rework
- Saves money and resources
- Comes with Zerust® global on-site support

Zerust Axxanol 46-BIO provides powerful, yet environmentally beneficial corrosion prevention.

APPLICATION EXAMPLES

ZERUST AXXANOL 46-BIO IS IDEAL FOR PROTECTION OF OBJECTS WITH EXPOSED BARE METAL, SUCH AS TOOLS, VEHICLES, MILITARY AND FARM EQUIPMENT. IT IS ALSO IDEAL FOR LIGHT LUBRICATION WITH CORROSION PROTECTION OF CABLES, COILS, HINGES AND CASTORS.



PHOTO OF SMALL PARTS COATED IN ZERUST AXXANOL 46-BIO.



CORROSION PROTECTION FOR:



APPLICATION TYPE

ORDERING INFORMATION

■ AVAILABILITY/PART NUMBER

- 1 Gallon: 350-M-000011GL
- 5 Gallon Pail: 350-M-000011PL
- 55 Gallon Drum: 350-M-000011DR

■ PROTECTION TYPE

Protects ferrous iron, steel, and some non-ferrous metals including aluminum, zinc, and solder.
Compatible with copper, but does not prevent tarnish.

■ PROTECTION LIFE

When properly applied to clean surfaces, Axxanol 46-BIO protects metals three months outdoors and one year indoors or under shelter.

■ FLASH POINT

435° F / 224° C

■ COVERAGE

Film Thickness: <0.3mil/7.6µ (drained)
3000 ft² (300 m²)/gal (drained)
500 ft² (46 m²)/gal (30 sec drain)

■ SHELF LIFE & HANDLING

Shelf life of two years when stored in original container, at 85°F/ 30°C or less, and out of direct sunlight.

■ DISPOSAL

Dispose in accordance with local, national and international regulations.



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DIRECTIONS FOR USE:

1. Ensure metal surfaces are clean and free of contaminants such as dirt, oil, fluids, etc.
2. Apply a thin coat of Zerust® Axxanol™ 46-BIO using pressurized air or airless sprayer or other light misting, brushing or dipping methods.
3. Allow excess Axxanol 46-BIO to drain-off or wipe-off excess with a clean lint-free cloth. The product will leave behind a thin corrosion-inhibiting residual film that provides full protection.

Store in a tightly closed container in a cool dry place out of direct sunlight. Wash hands thoroughly after handling. Note: Since product is a bio-based vegetable oil some darkening of the product color may occur when it comes in contact with light and air. Discoloration will not affect product performance.

REMOVAL:

Axxanol 46-BIO is easily removed with common aqueous-based household or industrial detergents, either manually or with a pressure washer. For a greener solution, use eco-friendly cleaners such as Simple Green®. For more information on removal products and methods visit our website at <http://www.zerust.com/product/axxanol-46-bio>.

ICT®700 SERIES OVERVIEW: LIQUID ADDITIVES & COATINGS

Product Name	Metals Protected	Protection Life Outdoors (Up To)	Protection Life Indoors (Up To)*	Formulation Base	Surface Finish
Axxatec™ 77C (4% dilution)	Ferrous, aluminum, brass, zinc and copper	Not recommended	4 months	Water-based	Thin, cloudy, visible
Axxanol™ 33CD	Ferrous, aluminum, brass, zinc and copper	Not recommended	6 months	Solvent-based	Dry to touch. very thin oil
Axxanol™ 34CD	Ferrous, aluminum, brass, zinc and copper	Not recommended	6 months	Solvent-based	Very thin oil
Axxanol™ 33	Ferrous, aluminum, brass, zinc and copper	Not recommended	8 months	Oil-based	Thin oil
Axxanol™ 750-W	Ferrous, aluminum, brass, zinc and copper	3 months	10 months	Oil-based with barrier	Thin oil
Axxanol™ 46-BIO	Ferrous, aluminum, zinc	3 months	12 months	Bio-based	Thin oil
Z-Maxx and Zmaxx LV	Ferrous, aluminum, brass, zinc and copper	12 months	24 months	Oil-based	Grease

* Indoor protection life results are rated for items stored indoors or under shelter in temperatures less than 100°F/38°C and in less than 70% relative humidity. Use Zerust packaging products to extend protection life up to five years and beyond. Water-based product test results are per ASTM D2247 humidity chamber testing. Oil- and solvent-based product test results are per ASTM B117 salt spray testing.

OTHER PRODUCTS AVAILABLE

ICT®500 Series: Packaging Films and ICT®800 Series: Vapor Diffusers

Our most widely used products for short or long-term corrosion protection for parts and equipment during storage, shipment and in-use.

ICT®600 Series: Rust Removers

Highly effective rust removers for light to severe rust removal. All ICT®600 series rust removers are non-toxic, non-hazardous & non-corrosive.

Natur-Tec® Bio-based and Compostable Plastics

Natur-Tec® resins are available in several grades tailored for a variety of applications such as blown-film extrusion, extrusion coating, injection molding and more.

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