

Zerust® Axxanol™ 46-BIO

CLEAN TECHNOLOGY THAT PROTECTS METAL FROM CORROSION

FEATURES

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

BENEFITS

- Supports environmentally responsible initiatives
- Reduces corrosion incidences
- 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.

PRODUCT INFORMATION

Zerust® Axxanol™ 46-BIO is a bio-based, sprayable corrosion inhibitor preservative-lubricant to stop rust on iron and steel, and other corrosion on aluminum and its alloys. This easy-to-use product is made with renewable agricultural vegetable oils, and provides environmental benefits for responsible use and disposal. It contains no petroleum distillates, making it less flammable than mineral oil-based corrosion protective compounds (CPC). Protection period is for up to three months outdoors, one year indoors, and over five years when used in conjunction with packaging material, such as LDPE or aluminized film.

Axxanol™ 46-BIO provides multimetal corrosion protection for steel, aluminum, and other typical alloys. The material meets requirements of MIL-PRF-3150 preservative-lubricant except that its lighter viscosity (ISO-46 centipoise) is optimized for use with compressed air sprayers. It can also be dip coated, brushed or wiped onto surfaces to leave a thin transparent non-tacky film.

Axxanol™ 46-BIO has also demonstrated favorable performance as a cleaner lubricant-preservative (CLP) for military applications when compared with qualified MIL-PRF-63460 CLPs used with weapons and artillery. This experience extends its usefulness to for firearms and similar high-value complex metal assemblies.

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 LUBRICATION AND CORROSION PROTECTION OF CABLES, COILS, HINGES AND CASTORS.



PHOTO OF METAL PART COATED IN ZERUST® AXXANOL™ 46-BIO IN A DUAL PROTECTION SYSTEM WITH PACKAGING FILM. THIS ROBUST PROTECTIVE COMBINATION PROVIDES MORE THAN FIVE YEARS OF LONG-TERM PROTECTION.



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.
Not recommended for copper.

■ PROTECTION LIFE

If properly applied, Axxanol™ 46-BIO will protect metals three months outdoors, one year indoors, and over five years with additional packaging such as LDPE or barrier film.

■ COVERAGE

3000 sq. ft./gallon (fully drained)
500 sq. ft./gallon (30-second drain)

■ SHELF LIFE & HANDLING

2 years if stored in original container, at 85° F or less, and out of direct sunlight.

■ DISPOSAL

As supplied this material is non-hazardous for disposal. May be used as a bio-diesel fuel. Dispose in compliance with relevant regulations for pollution and waste.

QUESTIONS?

Please contact a Customer Service Representative at:
+1 (763) 225-6600 or
e-mail sales@zerust.com.

ZERUST  **EXCOR**

Exclusive Western
Australian Distributor



Forcorp Pty Ltd
Unit 1, 9 Christable Way
Landsdale WA 6065
Ph: 61 8 9406 3200
Fx: 61 8 9303 9835

DIRECTIONS FOR USE:

1. Make sure that metal surfaces are clean and free of contaminants such as dirt, oil, fluids, etc.
2. Apply a thin coat of Zerust® Axxanol™ 46-BIO to parts using pressurized air or airless sprayer or other light misting, brushing or dipping methods.
3. Allow excess Zerust® Axxanol™ 46-BIO to drain, drip off, or wipe off excess with a clean lint-free cloth. The product will leave behind a thin corrosion inhibiting residual film that will provide full protection.
4. Use in conjunction with packaging film, such as LDPE, barrier material for a more robust solution that protects parts from corrosion for five years or more.

Storage: Keep containers closed when not in use. Store out of direct sunlight in a cool environment. Wash thoroughly after handling.

Notice: 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 manually or with a pressure washer. As a consideration, it is recommended that environmentally compliant (Green) cleaners be used, an example of which is 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	Corrosion Protection Life Outdoors	Corrosion Protection Life Indoors*	Formulation Base	Surface Finish
Axxatec™ 77C (1:24 dilution)	Iron, steel, aluminum, brass, zinc and copper	Not recommended	3-4 months*	Water-based	Thin, cloudy, visible
Axxanol™ 33CD (2%)	Iron, steel and copper	Not recommended	4-6 months*	Solvent-based	Very thin oil, dry to touch
Axxanol™ 34CD	Iron, steel, aluminum, zinc, copper and solder	Not recommended	6 months*	Solvent-based	Very thin oil
Axxanol™ 33	Iron, steel, aluminum, zinc, copper and solder	Not recommended	6-8 months*	Oil-based	Thin oil
Axxanol™ 46-BIO	Iron, steel, aluminum, zinc and solder	1-3 months	10-12 months*	Bio-based	Thin oil
Z-Maxx	Iron, steel, aluminum, brass, zinc and copper	9-12 months	18-24 months*	Oil-based	Thick, grease

*Indoors or under shelter. Check with your Zerust® sales representative about details on protection with packaging which extends protection life beyond five years.

OTHER PRODUCTS AVAILABLE

ICT®500 Series: Packaging Films

Our most widely used series of products. A variety of films offer short or long-term corrosion protection for parts and equipment during storage or shipment.

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 Bio-degradable Plastic Products

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.

©2006 Northern Technologies International Corporation (NTIC). All Rights Reserved. NTIC is the owner of the following trademarks: NTI®, NIC®, ZERUST®, The ZERUST People®, MATCH TECH®, Cor-Tab®, Plastabs®, ICT®, COR-SCI®, Z-CIS® and the Color "Yellow". EXCOR®, VALENO®, ABRIGO® and UNICO® are registered trademarks of EXCOR GmbH, a Joint Venture Partner of NTIC.