

## AxxaWash<sup>™</sup> I MMWD

### Technical Data Sheet

ZERUST<sup>®</sup>/EXCOR<sup>®</sup> AxxaWash<sup>™</sup> I MMWD is a low-alkaline, aqueous-based cleaner and neutralizing agent specifically formulated for low-foam and no-foam cleaning applications. It contains biodegradable surfactants and corrosion inhibitors and is designed for use with demineralized water. AxxaWash<sup>™</sup> I MMWD effectively cleans ferrous and aluminum surfaces while helping to reduce corrosion-causing contaminants and provide short-term corrosion protection after cleaning.

AxxaWash<sup>™</sup> IMMWD is a mildly alkaline, aqueous-based cleaning agent that can be used in immersion, ultrasonic, and low to ultra-high pressure (UHP) spray cleaning modes with only Demineralized water. In addition to effective hydrocarbon soil removal, a solution of AxxaWash<sup>™</sup> I MMWD deactivates common corrosion causing anionic contaminants such as chlorides and sulfates left by metalworking fluids. It provides short term corrosion prevention after wash. The product is conveniently offered as a liquid concentrate and may be diluted per the application. Metals properly cleaned with a solution of AxxaWash<sup>™</sup> I MMWD have enhanced corrosion protection from products such as ZERUST<sup>®</sup> Axxatec<sup>™</sup> and Axxanol<sup>™</sup> coatings and ZERUST<sup>®</sup> VCI packaging materials. Thoroughly dry the cleaned metals before placing into packaging. Check with your ZERUST<sup>®</sup>/EXCOR<sup>®</sup> representative for a corrosion inhibitor system best for your metal assets.

For over 50 years, beginning with the invention of Vapor Corrosion Inhibiting (VCI) film packaging, ZERUST<sup>®</sup>/EXCOR<sup>®</sup> has led the market in quality corrosion solution products. In addition to ZERUST<sup>®</sup> VCI film and other packaging products, ZERUST<sup>®</sup> offers an increasing range of cost-effective, high-performance wash fluids and rust preventative products. These products are formulated to work synergistically together to provide enhanced, comprehensive corrosion solutions for our customers. Backed by our global expert technical support and testing services, a comprehensive corrosion management program can be designed and deployed to meet individual customer's needs.

### Typical Properties

|                   |   |
|-------------------|---|
| Appearance        | White clear liquid  |
| Substrates        | Mainly for use on ferrous-based alloys, stainless steel. Test prior to use on non-ferrous alloys. Applicable and compatible for Plastic Bin cleaning. |
| VOC (concentrate) | < 26%, Diluted <1.3 %   |
| pH (concentrate)  | 10  |
| pH (5% solution)  | 9.5   |
| Density @ 29.5 °C | 1.055 g/mL  |

*This data sheet provides general guidelines for operation, application, and removal. Please contact your ZERUST<sup>®</sup>/EXCOR<sup>®</sup> account representative for more specific recommendations on your particular operation and conditions.*

### Operating Summary

- Dilute between 1 – 5% in water. Note: Dosage depends upon amount of oil and contaminations to be removed.
- Typical operating temperature: 77 – 140°F (25 – 60°C) in most operations.
- Deionized or reverse osmosis water is recommended for bath makeup and rinsing to improve bath life and reduce corrosion potential.

### Application Technologies

- Can be used in immersion, ultrasonic, spray, and pressurized spray processes.

### Product Removal

- AxxaWash<sup>™</sup> I MMWD can be rinsed and removed from the metal surface with the use of purified water (RO, D/I, Distilled) or left on the metal surface as a dry-in-place cleaner and flash-rust inhibitor.

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product information  
and photos

## Product Control

AxxaWash™ I MMWD is controlled by titration. To test the concentration:

- Pipette a 10 mL sample of the bath solution into a beaker.
- Add 100 mLs of DI, RO, or distilled water.
- Add 5 – 7 drops of bromocresol green indicator solution. The solution should turn blue.
- Titrate with 0.1 N hydrochloric or sulfuric acid until the solution turns yellow.
- Use the following table to determine concentration.

| % AxxaWash™ I MMWD | Titrant Volume (mLs) |
|--------------------|----------------------|
| 1                  | 2.8                  |
| 3                  | 8.6                  |
| 5                  | 14.4                 |
| 7                  | 20.2                 |
| 9                  | 26.0                 |

## Availability

ZERUST®/EXCOR® AxxaWash™ I MMWD is sold as a liquid concentrate. Contact your ZERUST®/EXCOR® representative for ordering information.

| Quantity   |
|------------|
| 35 L Pail  |
| 210 L Drum |

## Protection Info<sup>‡</sup>

- Up to 50 hours<sup>‡</sup> in Climatic chamber as per IEC 68-2-30 on 1010 steel panels at 3% concentration in DM water.

## Storage

- Store in a cool, dry place and away from sunlight in the original packaging.
- Optimal storage temperature is 34 – 122°F (1 – 50°C) for up to 2 years from the date of shipment.
- If the product freezes, bring it to room temperature and mix well. Reconstituted product should appear clear and amber yellow. If it is cloudy or has solids, contact your ZERUST®/EXCOR® representative.
- Reseal or close the container cap after each use.

## Disposal

- Dispose of in accordance with local, national, and international regulations.

## Precautions

- Always mix well before use.
- Deionized or reverse osmosis water is recommended for bath makeup and rinsing to improve bath life and reduce corrosion potential.
- Avoid placing metal surfaces in direct contact with wood or cardboard (sources of moisture and acid).
- Avoid contact with eyes and skin.
- Provide adequate ventilation to minimize vapor concentrations.
- Do not breathe mist, spray, or vapors.
- Wear personal protective equipment as stipulated in the Safety Data Sheet (SDS).
- Refer to SDS for more safety information.

### ‡ DECLARATION

Corrosion protection claims are based on Northern Technologies International Corporation (NTIC) internal laboratory testing performed under controlled parameters on contaminate-free substrates. Real-world application corrosion protection duration on different substrates will vary and depends on factors such as, but not limited to, the application or use, environmental / storage conditions, surface cleanliness, type of substrates, and coating thickness (where applicable). The use of the term "Up to" in reference to time is defined as any time duration from zero up to a specified time frame, but in no event beyond the specified time frame. The use of the term "for years" is based on NTIC's experience with its products but is in no way guaranteed. The use of the term "Up to" in reference to volume is defined as any volume from zero up to a specified volume but in no event beyond the specified volume of protection. It is the customer's / user's obligation to evaluate product performance, corrosion protection duration, safety, and suitability for intended use within the scope advised in the data sheet and to comply with all applicable laws and regulations. **LIMITED WARRANTY/DISCLAIMER** Warranty is limited to the replacement of a product that fails to meet specifications. For full warranty and disclaimer information, visit [www.zerust.com/warranty](http://www.zerust.com/warranty).

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A product of:  
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