

Reztore™ Surface & Mat Cleaner Application Instructions



Made in America



Figure 1. Reztore™ Surface & Mat Cleaner:
16 ounce (500 ml) spray bottle
1 quart (1 litre) spray bottle
2.5 Gallon (10 litre) Bag-in-Box

Description

Reztore™ Surface & Mat Cleaner is a non-toxic liquid cleaner used to remove dust, grease, grime, fingerprints, and solder flux from all surfaces used in a static sensitive area. Reztore™ Surface & Mat Cleaner leaves no insulative residue, contains no alkali or ammonia, and is nonflammable.

General Guidelines

Reztore™ Surface & Mat Cleaner is a liquid cleaner which can be used on a variety of surfaces, especially surfaces used in a static sensitive environment. Surfaces include but are not limited to: rubber, vinyl and polyethylene table and floor mats, field service kits, laminated table tops, tote boxes, epoxy, painted surfaces, plexiglass, glass, metal, 3-ring binders, computer screens, computer keyboards, shelving, push carts, conveyor belts, etc.

Note: Cleaners containing silicone will leave an insulative film. A dissipative ESD worksurface may not fulfill its function if covered by an insulative layer. Many general purpose cleaners contain silicone.

Directions

Smooth Surfaces:

Apply Reztore™ Surface & Mat Cleaner to the entire surface to be treated using either the pump or trigger spray bottle. Use a lint-free cloth to wipe the surface until dry. For set stains, let Reztore™ Surface & Mat Cleaner soak on the surface for 30 seconds before wiping clean.

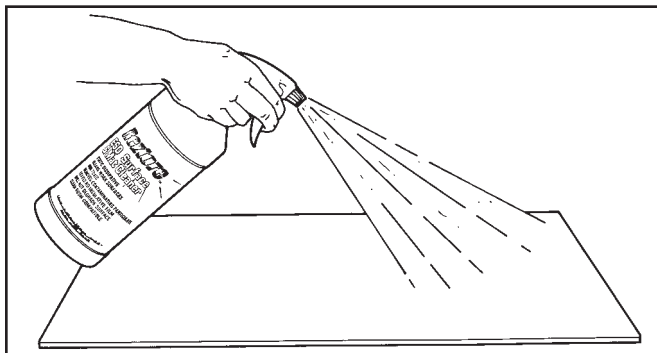


Figure 2. Applying Reztore™ to the mat.

Other Surfaces - Keyboards:

Dampen a lint-free cloth or a lint-free swab with Reztore™ Surface & Mat Cleaner. Wipe surface to be cleaned using either the cloth or swab. The swab will work best for tight spots like between keyboard keys. Use the cloth to wipe clean the remaining surfaces of the keyboard.

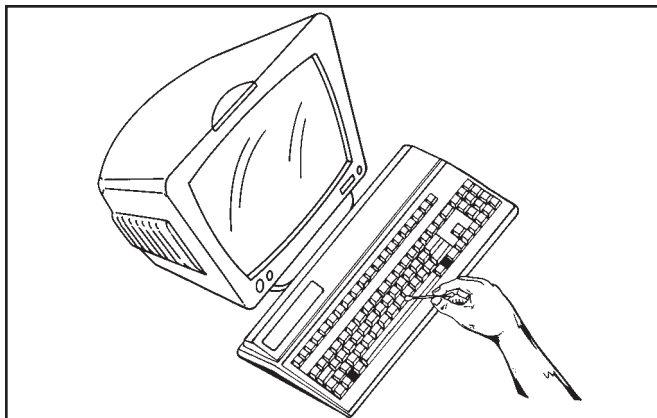


Figure 3. Cleaning a keyboard or computer screen with Reztore™ Surface & Mat Cleaner.

On non-ESD surfaces, we recommend using Reztore™ Topical Antistat static dissipative coating. While coating is on the surface it will enhance existing ESD surfaces and will give dissipative electrical properties to insulative surfaces.

Specifications

| | |
|---|--|
| Appearance of solution: | Transparent violet |
| pH: | 6-8 |
| Odor: | Slight floral |
| Solubility: | Water, acetone, alcohols |
| Toxicity, Irritation, Sensitivity: | Non-toxic by dermal contact, or inhalation |
| Flammability: | Non-flammable |
| Ion Level: | (mg/l) |
| | Fluoride 0.3 |
| | Sulfate <0.5 |
| | Nitrate 1.2 |
| | Bromide <0.5 |
| | Phosphate <0.5 |

Electrical Properties (Dry Film):

Resistance, point to point (RTT):
10⁸ ohms (ref. ESD S4.1)
Static Decay Rate:
<.01 seconds (per FTMS 101C Method 4046)

Testing

It is recommended to test the surfaces after cleaning to ensure that all insulative contaminants such as dirt and grime have been removed. Reztore™ Surface & Mat Cleaner was designed to leave behind a coating which has a surface resistance of 10⁸ ohms or lower.

FIELD TEST:

For quick and easy verification of surface resistance we recommend the use of a megohmmeter. These are available from many Desco Industries companies. For testing of static fields, we recommend the use of a static field meter. These instruments are also available from many Desco Industries companies.

Features

- Cleans bench surfaces
- Leaves static dissipative layer on surface
- Non-toxic
- Non-streaking, quick drying
- Non-aerosol
- No CFC's - water based
- No alkali or ammonia
- Neutral pH
- Low Volatile Organic Solvents

NOTE: Reztore™ Surface & Mat Cleaner product does not have a set life span. The chemicals are not known to degrade over time when stored at the proper temperature conditions as stated in the Material Safety Data Sheet. We also recommend that this product be stored in its original container and be sealed when not in use.

Limited Warranty

Desco Industries Inc. expressly warrants that for a period of one (1) year from the date of purchase, our Reztore™ Surface & Mat Cleaner will be free of defects in material. Within the warranty period, the material will be replaced at our option, free of charge. Call our Customer Service Department at 781-821-8370 or 00 44 (0) 1892-665313 in Europe for a Return Material Authorization (RMA) and proper shipping instructions and address. You should include a copy of your original packing slip, invoice, or other proof of purchase date. Any material under warranty should be shipped prepaid to the Desco Industries Inc. factory. Warranty replacements will take approximately two weeks.

Warranty Exclusions

THE FOREGOING EXPRESS WARRANTY IS MADE IN LIEU OF ALL OTHER PRODUCT WARRANTIES, EXPRESSED AND IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH ARE SPECIFICALLY DISCLAIMED. The express warranty will not apply to defects or damage due to accidents, neglect, misuse, alterations, operator error, or failure to properly maintain, clean or repair products.

Limit of Liability

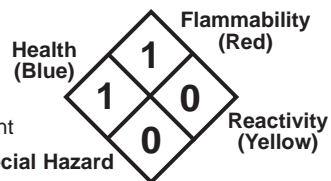
In no event will Desco Industries Inc. or any seller be responsible or liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. Before using, users shall determine the suitability of the product for their intended use, and users assume all risk and liability whatsoever in connection therewith.

Material Safety Data Sheet

Material Safety Data Sheet maybe used to comply with EC, according to 91/155EC and ANSI Standard Z400.1-1998
Date: September 19, 2003

NFPA Designation 704

Degree of Hazard
4 = Extreme
3 = High
2 = Moderate
1 = Slight
0 = Insignificant



REZTORE™ SURFACE & MAT CLEANER

1. IDENTIFICATION OF THE PRODUCT and OF THE ENTERPRISE

Chemical name: Cleaner, ESD Surface & Mat

Manufacturer: Desco Industries Inc.
90 Hudson Road
Canton, MA 02021
U.S.A.

Emergency Phone: (781) 821-8370
Fax: (781) 575-0172

2. INFORMATION ON INGREDIENTS/COMPOSITION

| Ingredients | Weight | CAS-No. | TLV-value | R-Phrases |
|--------------------------|---------|---------------|-----------|-----------|
| Trade secret#030507MA105 | 1-5% | non hazardous | NE | |
| Isopropanol* | 5-25% | 67-63-0 | 400 ppm | R11 |
| Water | 60-100% | 7732-18-5 | NE | |

*Listed Chemical Subject To Reporting Requirement of SARA Section 313 of Title III

| | | | | |
|-------------|--------------|---|---------------------|---|
| HMIS Rating | Health | 1 | Reactivity | 0 |
| | Flammability | 1 | Personal Protection | B |

3. HAZARDS IDENTIFICATION

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|------------|---|
| Eyes | A high concentration of liquid, mist, or vapor may cause irritation of the connective tissue. |
| Skin | Repeated or continuous contact may cause irritation of the skin. |
| Ingestion | none known |
| Inhalation | Irritation of nose, throat, and lack of breath. Exposure to vapors in high concentration may have same effect as with inhalation. |

4. FIRST AID MEASURES

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|--------------|--|
| Eye Contact | Flush with water for at least 15 minutes. |
| Skin Contact | Wash with soap and water |
| Ingestion | DO NOT induce vomiting. Contact a physician. |
| Inhalation | Move subject to fresh air. |

5. EXTINGUISHING MEASURES

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|----------------------------|---|
| Proper Extinguishing Media | Water |
| Protective Clothing | Wearing of appropriate protective equipment |
| Special Procedures | Cool containers with water |

6. MEASURES TO EXPOSURE OF PRODUCT

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|---------------------------|--|
| Personal Precautions | Wearing protective clothing. Inhalation protection. Extinguish all ignition sources. |
| Environmental Precautions | Biodegradable |
| Cleaning Procedures | Dike and collect material into plastic container. Water rinse and drain, flush small amounts. Use sanitary landfill disposal. Follow state and local regulations (RCRA; Subtitle D). |

7. HANDLING AND STORAGE

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| Handling | Use in well-ventilated areas; avoid breathing vapors. Keep containers closed when not in use. Avoid from freezing. |
| Storage | Storage Temperature: Max. 49°C/120°F-1°C/34°F Keep from freezing |

8. EXPOSURE CONTROL/PERSONAL EXPOSURE

| | |
|--------------------------------|---|
| Control Parameters | TLV-value 400 ppm maximum for Isopropanol |
| Other Regulations | None |
| Measures For Technical Control | Preferences of technical measure to prevent or control contact with the product. Isolating process and personnel, mechanical ventilation (dilution and local exhaust) and the regulation of process conditions. In case of non-prevention or non-control, a proper protective wearing should be used. |
| Respiratory Protection | Wear MSHA/NIOSH approved respirator where exposure limits are exceeded |
| Hand Protection | Impervious/Neoprene Gloves |
| Eye Protection | Chemical Splash Goggles (ANSI Z-87.1) |
| Work/Hygienic Practices | Wash hands before eating, smoking, or using washroom facilities |

9. PHYSICAL AND CHEMICAL PROPERTIES

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|---|--|
| Form | Liquid |
| Color | Clear Violet |
| Smell | FloralAlcohol |
| pH | 7.0-8.0 |
| Boiling Point at °C | >200°F (100°C) |
| Melting Point at °C | N/A |
| Flash Point at °C | Noncombustible |
| Inflammability Limits (vol.% in air) | N/A |
| Solubility in water | Complete |
| VOC per Method 24 of EPA | 1% VOC by wt. |
| Vapor Pressure (mmHg) | 18.0 |
| Vapor Density (air=1) | 1.06 |
| Density at 20°C | 8.17 lbs./gal |
| Specific Gravity (H2O=1) | .98 |
| Inflammability | Classification according to EC-regulations "non-flammable" |
| Ignition Temperature | N/A |
| Evaporation Rate | .28 |

10. STABILITY AND REACTIVITY

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|-------------------------|--|
| Stability/Reactivity | Stable product at normal conditions |
| Conditions to avoid | Temperatures above 49°C/120°F and below 1°C/34°F |
| Materials to avoid | Strong Oxidizers |
| Hazardous Decomposition | Thermal decomposition may yield carbon monoxide |

11. TOXICOLOGICAL INFORMATION

All information refers to the main component Isopropanol

| | |
|----------------|------------|
| Acute toxicity | None Known |
| Special Effect | None Known |

12. ECOLOGICAL INFORMATION

No environmental hazards have been reported or known.

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|-----------------------|--|
| Mobility | The product is aqueous and will be separated in aqueous conditions |
| Degradability | N/A |
| Bioaccumulation | Not likely |
| Ecotoxicity | None known |
| Reference to BimSchV | N/A |
| Hazard Classification | None Hazardous |

13. DISPOSAL CONSIDERATIONS

| | |
|------------------------|--|
| Product | Dike and collect material into plastic container. Water rinse and drain, flush small amounts. Use sanitary landfill disposal. Follow state and local regulations (RCRA; Subtitle D). |
| Hazardous Waste Number | Nonregulated |

14. TRANSPORT INFORMATION

This product is not classified for transport under ADR/IMDG regulations.

15. REGULATORY INFORMATION

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|--|--|
| Physical/Chemical Indication | Non-flammable |
| Safety Phrase | (S2): keep away from children, (S7): keep containers well closed, (S24/25): avoid contact with skin and eyes, (S62): if swallowed, do not induce vomiting; seek medical advice immediately and show this container or label. |
| EU Classification (67/548/EEC-88/379/EEC) | This product does not have to be classified according to the EU Regulations. |
| EINECS Status | All components are included in the EINECS Inventories |
| TSCA Control Act (TSCA) Chemical Substance inventory. | All ingredients of this product are listed or are excluded from the listing on the U.S. Toxic Substance |

16. OTHER INFORMATION

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|---------------------|------------|
| Further Information | None Known |
|---------------------|------------|

Disclaimer

The information given in this publication has been worked up to the best of the knowledge of Desco Industries Inc, as well as taking into consideration the applicable laws and regulations. We cannot anticipate all conditions under which this information and our products or the products of the manufacturers in combination with our products may be used. We accept no responsibility for the results obtained by the application information or the safety and suitability of our product or product combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combination for their own purposes. Unless otherwise agreed in writing, we sell the products without warranty, and buyers end users assume responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products.

N/A = Not Applicable; NE = None Established