

# Reztore™ Surface & Mat Cleaner Application Instructions



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 with silicone leave an insulative residue on surfaces and solvents such as 2-Butoxyethanol or Ethanolamine used in cleaners can dry out the material; both can prevent conductive or dissipative mats from functioning properly.

“Periodic cleaning, following the manufacturer’s recommendations, is required to maintain proper electrical function on all work surfaces. Ensure that cleaners that are used do not leave an electrically insulative residue common with some household cleaners that contain silicone.” (ESD Handbook ESD TR20.20 section 5.3.1.14 Worksurface Maintenance)

“Only cleaning materials or processes which do not degrade the properties of the ESD protective items, shall be used.” (EN 61340-5-1 clause 5.5 EPA working practices)

## 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.

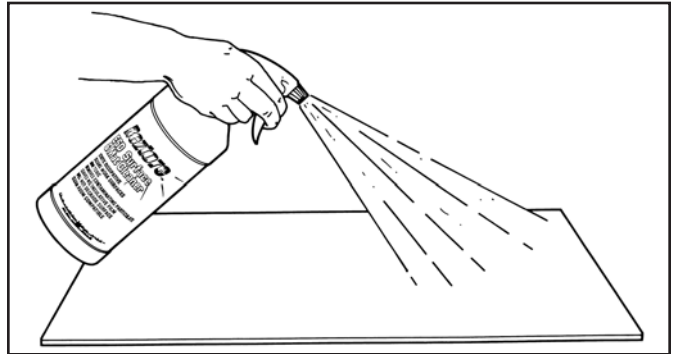


Figure 2. Applying Reztore™ to the mat.

### 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.

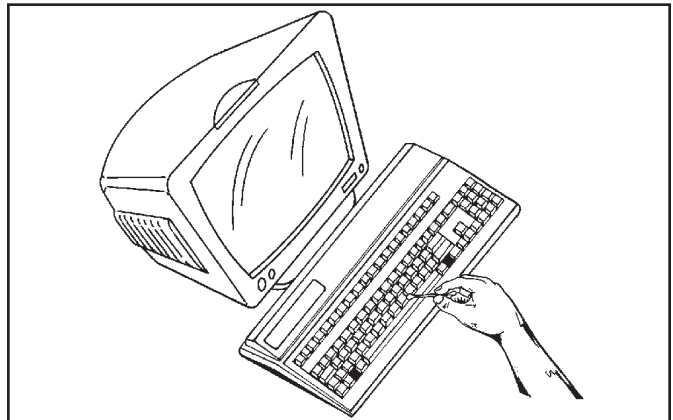


Figure 3. Cleaning a keyboard or computer screen with Reztore™ Surface & Mat Cleaner.

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

<b>Appearance of solution:</b>	Transparent violet
<b>pH:</b>	6-8
<b>Odor:</b>	Slight floral
<b>Solubility:</b>	Water, acetone, alcohols
<b>Toxicity, Irritation, Sensitivity:</b>	Non-toxic by dermal contact, or inhalation
<b>Flammability:</b>	Classification according to NFPA and OSHA as "non-flammable", Flammable Category 3 according to EU and GHS.
<b>Ion Level:</b>	(mg/l)
	Fluoride 0.3
	Sulfate <0.5
	Nitrate 1.2
	Bromide <0.5
	Phosphate <0.5

## Electrical Properties (Dry Film)

	$1 \times 10^7$ to $< 1 \times 10^9$ ohms (ref. ANSI/ESD S4.1)
<b>Static Decay Rate:</b>	<.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  $10^8$  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.

### RoHS 2 and REACH Statement

None of the RoHS 2 restricted materials or REACH substances of very high concern as of 2012/12/19 are intentionally added in manufacturing this product. Ref: European Union Directive 2011/65/EU and Regulation (EC) No. 1907/2006/CE. See Desco [Limited Warranty at DescoIndustries.com](http://DescoIndustries.com).

### 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

May be used to comply with ANSI Z400.1-2004, 29 CFR 1910.1200, European 2001/58/EC, REACH 1907/2006/EC, and GHS. Standards must be consulted for specific requirements.

NFPA Designation 704

Degree of Hazard

4 = Extreme

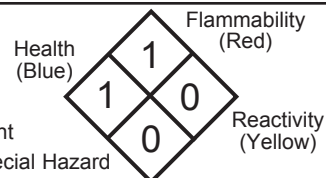
3 = High

2 = Moderate

1 = Slight

0 = Insignificant

Special Hazard



HMIS RATING: Health 1, Flammability 1, Physical Hazard 0, Personal Protection B

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name/Identity:** Reztore™ Surface and Mat Cleaner  
**Chemical Name:** Cleaner, ESD Surface & Mat  
**Manufacturer:** Desco Industries, Inc  
**Address:** One Colgate Way  
Canton, MA 02021  
**Telephone:** 781-821-8370  
**Emergency Number:** 781-821-8370  
**Date Prepared:** 2014-10-23

### SECTION 2 — HAZARDS IDENTIFICATION

**Classification:** Flammable liquid, Category 3  
Eye irritation, Category 2A-2B

**Labelling:**  
**Symbol:** Flame, Exclamation mark  
**Signal word:** Warning  
**Hazard statement:** Flammable liquid and Eye irritation.  
**Precautionary statements:** Do not eat, drink or use with open flame. Wash hands thoroughly after handling. Keep container tightly closed. Keep away from heat/sparks/open flame. Store in cool ventilated place.  
IF SWALLOWED: Immediately call your doctor or physician. Do NOT induce vomiting.

### SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

<b>Hazardous Ingredients:</b>	<b>CAS No.</b>	<b>Weight (%)</b>
Isopropanol*	67-63-0	5-25%

\*These items are listed and subjected to the reporting requirements of the SARA Title III Section 313 Inventory of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR372.

### SECTION 4 — FIRST AID MEASURES

**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.

### SECTION 5 — FIREFIGHTING MEASURES

**Proper Extinguishing Media:** Water  
**Unsuitable Extinguishing Methods:** N/A  
**Protective Equipment & Precautions:** Wearing of appropriate protective equipment and clothing.  
**Flash Point (Method Used):** N/A  
**Flammable Limits:** N/A  
**Special Fire Fighting Procedures:** Cool containers with water.  
**Unusual Fire and Explosion Hazards:** None known.

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

**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).

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## SECTION 7 — HANDLING AND STORAGE

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.

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## SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

<i>Hazardous Ingredients:</i>	<i>CAS No.</i>	<i>TLV-value</i>
Isopropanol*	67-63-0	400 ppm

Control Parameters: TLV-value 400 ppm maximum for Isopropanol  
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 (*Specify Type*): Wear MSHA/NIOSH approved respirator where exposure limits are exceeded.  
Hand Protection: Impervious/Neoprene Gloves  
Eye Protection: Safety glasses or Chemical splash goggles as defined in ANSI Z-87.1 or a similar standard.  
Work/Hygienic Practices: Wash hands before eating, smoking, or using washroom facilities.

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## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid  
Colour: Clear violet  
Odor: Floral Alcohol  
Boiling Point: >200°F (93.3°C)  
Melting Point: N/A  
Specific Gravity (H<sub>2</sub>O = 1): .98  
Solubility in Water: Complete  
pH: 6-8  
VOC per Method 24 of EPA: 1% VOC by wt.  
Flash Point: 106°F (41°C)  
Flammability Limits: N/A  
(vol. % in air)  
Vapor Pressure (mm Hg): 18.0  
Vapor Density (air=1): 1.06  
Density at 20°C: 8.17 lbs./gal  
Flammability: Classification according to NFPA and OSHA as “non-flammable”, Flammable Category 3 according to EU and GHS.  
Ignition Temperature: N/A  
Evaporation Rate: .28

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## SECTION 10 — STABILITY AND REACTIVITY

Hazardous Decomposition/Byproducts: Thermal decomposition may yield carbon monoxide.  
Incompatibility (*Materials to Avoid*): Strong Oxidizers  
Stability/Reactivity: Stable product at normal conditions.  
Conditions to Avoid: Temperatures above 100°F (38°C) and below 34°F (1°C)  
Hazardous Polymerization: NE

N/A = Not Applicable; NE = None Established

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## SECTION 11 — TOXICOLOGICAL INFORMATION

All information refers to the main component Isopropanol

Acute toxicity: None known  
Special Effects: None known

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## SECTION 12 — ECOLOGICAL INFORMATION

No environmental hazards have been reported or known.

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

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## SECTION 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: Non Hazardous

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## SECTION 14 — TRANSPORT INFORMATION

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

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## SECTION 15 — REGULATORY INFORMATION

Physical/Chemical Indication: Non-flammable (NFPA and OSHA), Flammable (EU and GHS)  
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: The product does not have to be classified according to the EU Regulations.  
(67/548/EEC, (EU) 649/2012, (EEC) 793/93):  
EINECS Status: All components are included in the EINECS inventories.  
TSCA: All ingredients of this product are listed or are excluded from the listing on the U.S. Toxic substance.  
REACH: This product does not require REACH registration.

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## SECTION 16 — OTHER INFORMATION

HMIS RATING: Health 1, Flammability 1, Physical Hazard 0, Personal Protection B

NFPA RATING: Special Hazard 0, Health 1, Flammability 1, Reactivity 0

### 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