

Reztore™ Topical Antistat Application Instructions



Made in America



Figure 1. Reztore™ Topical Antistat
1 quart (1 litre) spray bottle
2.5 Gallon (10 litre) Bag-in-Box

Description

Reztore™ Topical Antistat is a topical antistatic solution for use on dissipative and non-ESD surfaces. After Reztore™ Topical Antistat has been applied and the surface dries, an antistatic and protective static dissipative coating is left behind. The static dissipative coating will allow charges to drain off when grounded. The antistatic properties will reduce triboelectric voltage to under 200 volts. Reztore™ Topical Antistat will enhance existing electrical properties of ESD surfaces and give non-ESD surfaces electrical properties until the hard coat is worn away. Reztore™ Topical Antistat does not leave behind any harmful insulative barriers.

General Guidelines

Reztore™ Topical Antistat 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.

Directions

Surfaces:

Apply Reztore™ Topical Antistat to the entire surface to be treated using either the pump or trigger spray bottle. Use a lint-free cloth to wipe the surface evenly. For rough or porous surfaces two coats may be needed to obtain proper protection.

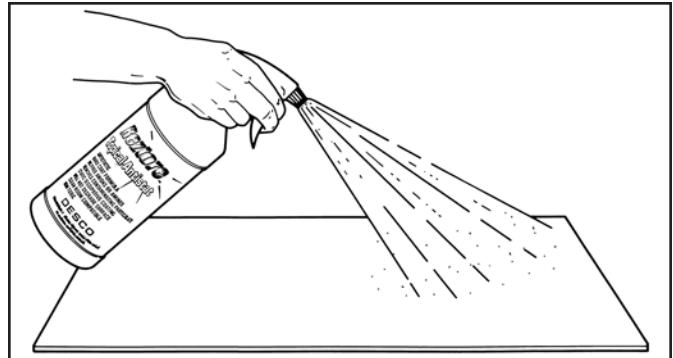


Figure 2. Applying Reztore™ Topical Antistat to the mat.

Other Surfaces - Keyboards:

Dampen a lint-free cloth or a lint-free swab with Reztore™ Topical Antistat. Wipe surface to be protected using either the cloth or swab. The swab will work best for tight spots like between keyboard keys. Use the cloth to wipe the remaining surfaces of the keyboard or surface to be protected.

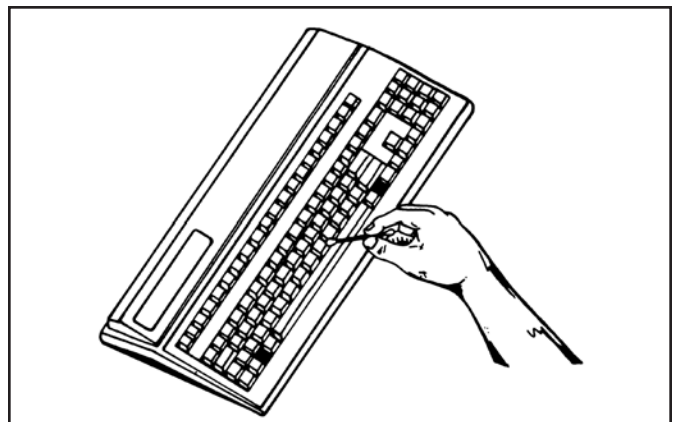


Figure 3. Cleaning a keyboard with Reztore™ Topical Antistat

When dry, Reztore™ Topical Antistat will leave a thin protective antistatic, as well as static dissipative coating on the surface. This enhances existing ESD surfaces and will give temporary electrical properties to insulative surfaces.

Specifications

Reztore™ Topical Antistat has zero ionic contamination, which will neither contaminate nor corrode sensitive components and assemblies.

Ion	Level (mg/l)	Limit of Detection (mg/l)
Bromide	<3	3
Chloride	<1	3
Fluoride	<0.5	0.5
Nitrate	0.5	0.5
Nitrite	<0.5	0.5
Ortho-phosphate	<5	5
Sulfate	<3	3

Meets conditions of clean room class 1 for above listed ion contaminants per FED-STD-209C.

Electrical Properties

Surface Resistivity	10 ⁸ ohms/sq	EOS/ESD-S11.11
Surface Resistance	10 ⁶ ohms	ISO 2878
Triboelectric Charge	<200 volts	
Charge Decay	.02 sec. Method 4046	FTMS 101C,

Testing

It is recommended to test the surfaces after applying to ensure that all insulative areas have been coated. Desco Industries recommends Reztore™ Surface & Mat Cleaner to thoroughly clean the surface before applying Reztore™ Topical Antistat. Reztore™ Topical Antistat is specifically designed to leave behind an antistatic as well as static dissipative coating of 10⁹ ohms, to enhance and provide the static safe properties of the surface. Testing for either surface resistance point to point (RTT) or resistance to ground (RTG) will indicate if the surface is coated properly.

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.

NOTE: Reztore™ Topical Antistat 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 the 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™ Topical Antistat 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. Standard must be consulted for specific requirements.

NFPA Designation 704

Degree of Hazard

4 = Extreme

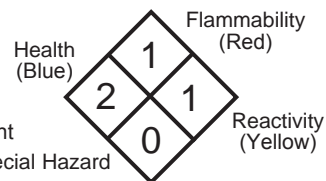
3 = High

2 = Moderate

1 = Slight

0 = Insignificant

Special Hazard



HMIS RATING: Health 2, Flammability 0, Physical Hazard 0, Personal Protection B

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name/Identity: Reztore™ Topical Antistat
Chemical Name: Cleaner and Coating, Antistat and low charging
Manufacturer: Desco Industries, Inc
Address: One Colgate Way
Canton, MA 02021
Telephone: 781-821-8370
Emergency Number: 781-821-8370
Date Prepared: 2010-05-03

SECTION 2 — HAZARDS IDENTIFICATION

Hazard description: N/A
Information concerning particular hazards for human and environment: The product does not have to be labeled due to the calculation procedure of the "General Classification guidelines for preparations of the EU" in the latest valid version.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients:	CAS No.	Weight (%)
Diethylene Glycol*	111-46-6	1-5%
Ethylene Glycol Monobutyl Ether	111-76-2	5-25%
Water	7732-18-5	60-100%

*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

Emergency and First Aid Procedures:
Eye Contact: Flush with water for at least 15 minutes.
Skin Contact: Wash with soap and water.
Ingestion: DO NOT induce vomiting, drink 2 glasses of water.
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: None
Unusual Fire and Explosion Hazards: N/A

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wearing protective clothing. Inhalation protection.
Environmental Precautions: None known. Biodegradable.
Cleaning Procedures: Dike and collect material into plastic container. Water, rinse, and drain, flush small amounts. Use sanitary landfill disposal. Follow local, state, and federal regulations (RCRA; Subtitle D).

SECTION 7 — HANDLING AND STORAGE

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

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Hazardous Ingredients:	CAS No.	TLV-value
Diethylene Glycol*	111-46-6	50 ppm
Ethylene Glycol Monobutyl Ether	111-76-2	25 ppm
Water	7732-18-5	NE

Control Parameters: TLV-value 25 ppm maximum for Ethylene Glycol Monobutyl Ether, TLV-value 50 ppm for Diethylene Glycol.

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, proper protection should be used.

Respiratory Protection (Specify Type): Not required. Wear MSHA/NIOSH-approved respirator where exposure limits are exceeded.

Hand Protection: Impervious/Neoprene Gloves

Eye Protection: Chemical Splash Goggles as defined in ANSI Z-87.1 or a similar standard.

Other Protective Clothing or Equipment: Eyewash station

Work/Hygienic Practices: Wash hands before eating, smoking, or using washroom facilities

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Clear
Odor:	Mild
Boiling Point:	>200°F (94°C)
Melting Point:	N/A
Specific Gravity (H ₂ O = 1):	1.0 - 1.2
Solubility in Water:	Complete
pH:	7.0 - 8.0
Flash Point:	Noncombustible
Flammability Limits:	N/A
Vapor Pressure (mm Hg):	18.0
Vapor Density (air=1):	<1.0
Density at 20°C:	8.17 lbs./gal
VOC per Method 24 of EPA:	6% VOC by wt.
Ignition Temperature:	N/A
Evaporation Rate:	<1.0

SECTION 10 — STABILITY AND REACTIVITY

Hazardous Polymerization:	N/A
Hazardous Decomposition/Byproducts:	None known.
Incompatibility (Materials to Avoid):	Strong oxidizing and reducing agents.
Stability/Reactivity:	Stable product at normal conditions.
Conditions to Avoid:	Temperatures above 49°C/120°F and below 1°C/34°F

SECTION 11 — TOXICOLOGICAL INFORMATION

Ethylene Glycol Monobutyl Ether (111-76-2)

Acute Toxicity:	
Ingestion	LD50, Guinea Pig 1,400 mg/kg LD50, Rat, male 1,746 mg/kg
Skin Absorption	LD50, Rat, 2,270 mg/kg LD50, Rabbit 99-610 mg/kg LD50 Guinea Pig > 2,000 mg/kg
Inhalation	LC50, 7 h, Vapor, Rat 700 ppm

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:	Non hazardous

SECTION 13 — DISPOSAL CONSIDERATIONS

Product:	Dike and collect material into plastic container. Water, rinse, and drain, flush small amounts. Follow local, state, and federal regulations.
Hazardous Waste Number:	Non Hazardous

SECTION 14 — TRANSPORT INFORMATION

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

SECTION 15 — REGULATORY INFORMATION

Physical/Chemical Indication:	Non-flammable
Risk-Phrase:	(R20/21/22): Harmful by inhalation, in contact with skin and if swallowed. (R36/37): Irritating to eyes and skin.
Safety-Phrase:	(S2): Keep away from children. (S36/37): wear suitable protective clothing and gloves. (S46): If swallowed, seek medical advice immediately and show this container or SDS.
EU Classification:	This product does not have to be classified according to the EU Regulations.
(67/548/EEC-88/379/EEC):	
EINECS Status:	All components are included in the EINECS inventories.
REACH:	This product does not require REACH registration.

SECTION 16 — OTHER INFORMATION

HMIS RATING: Health 2, Reactivity 0, Flammability 0, Personal Protection B

NFPA RATING: Special Hazard 0, Health 2, Flammability 1, Reactivity 1

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