DESCO INDUSTRIES INC TECHNICAL BULLETIN TB-7000

Reztore® Surface & Mat Cleaner Application Instructions





Figure 1. Reztore® Surface & Mat Cleaner: 16 Ounces (500 mL) Spray Bottle 1 Quart (1 liter) Spray Bottle 2.5 Gallons (10 liters) Bag-in-Box

Description

Reztore® Surface & Mat Cleaner is a 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 according to NFPA and OSHA, is "non-flammable".

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.

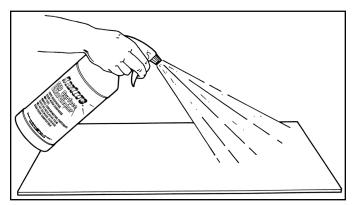


Figure 2. Applying Reztore® to the mat

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.

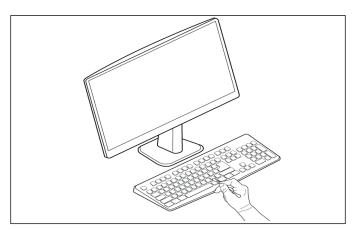


Figure 3. Cleaning a keyboard or computer screen with Reztore® Surface & Mat Cleaner

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.

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Specifications

Appearance of Solution	Transparent violet	
рН	6.0 - 8.0	
Odor	Slight floral	
Solubility	Water, acetone, alcohols	
Toxicity, Irritation, Sensitivity	Non-toxic by dermal contact, or inhalation	
Flammability	"Non-flammable" per NFPA and OSHA. Flammable Cat. 3 per CLP	
Ion Level (mg/L)	Fluoride 0.3 Sulfate <0.5 Nitrate 1.2 Bromide <0.5 Phosphate <0.5	
Electrical Properties (Dry Film)	1 x 10^7 to < 1 x 10^9 ohms (ref. ANSI/ESD S4.1)	
Static Decay Rate	<0.01 seconds (per FTMS 101C Method 4046)	

Testing

It is recommended to test the surface after cleaning to ensure that all insulative contaminants such as dirt and grime have been removed. Reztore® Surface & Mat Cleaner will only leave behind a coating with a surface resistance of less than 1 x 109 ohms.

Storage

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 Safety Data Sheet. We also recommend that this product be stored in its original container and be sealed when not in use.

RoHS, REACH, and Conflict Minerals Statement

See the Desco Industries RoHS, REACH, and

Conflict Minerals Statement:

DescoIndustries.com/ROHS.aspx

Desco Industries Limited Warranty

See the Desco Industries Limited Warranty:

DescoIndustries.com/Warranty.aspx

Reztore® Surface and Mat Cleaner is available from these Desco Industries brands:

DESCO

for service and support in North America

16 Oz.	<u>10439</u>
1 Quart	<u>10435</u>
2.5 Gallons	10438

DESCO EUROPE

for service and support in United Kingdom and **Europe**

1 Litre	<u>229021</u>
1 Litre 12 Packs	229022
10 Litres	229023

DESCO ASIA

for service and support in Asia

0.5 Liter	10439
1 Liter	<u>10435</u>
10 Liters	<u>10438</u>

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SAFETY DATA SHEET

May be used to comply with OSHA Hazcom 29 CFR 1910.1200, Reg. (EU) No.453/2010 and Japan JIS 7253-2012). Standards must be consulted for specific requirements.

Revision Date: 2018-06-26

SECTION 1 — IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Product Name: Reztore® Surface and Mat Cleaner

EC No.: None **REACH Registration No.:** None CAS No.: None

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use: Cleaner, ESD Surface & Mat

1.3 Details of the supplier of the safety data sheet

Supplier: DESCO INDUSTRIES INC

United States United Kingdom Japan

2A Dunhams Lane 661-1 Yachimata-ho One Colgate Way Canton, MA 02021 Letchworth Garden City Yachimata-Shi +1 781-821-8370 Hertfordshire, SG6 1BE Chiba-Ken 289-1115 +81 43-309-4470 +44 (0) 1462 672005

Email Address: Service@DescoIndustries.com

1.4 Emergency telephone number

+1 781-821-8370 **United States: United Kingdom:** +44 (0) 1462 672005 Japan: +81 43-309-4470

Office hours: 8:00 AM - 5:00 PM

SECTION 2 — HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Classification according to OSHA Hazcom 29 CFR 1910.1200, Regulation (EC) No 1272/2008, JIS 7252-2014

Flammable liquid Category 3 Eye irritation Category 2 Specific target organ toxicity Category 3

(Single exposure)

2.2 Label elements

Labelling according to OSHA Hazcom 29 CFR 1910.1200, Regulation (EC) No 1272/2008, JIS 7252-2014

Hazard pictograms/Symbols:





Signal word: Warning

Hazardous statements: H226 Flammable liquid and vapor

H319 Causes serious eye irritation

H336 May cause drowsiness or dizziness

Precautionary statements: Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

P241 Use explosion-proof electrical/vetilating/lighting equipment.

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P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately

all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel

unwell.

P305 + P351 + P338 + P337 + P313 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

Components	CAS No.	%wt.	Classification
Isopropanol	67-63-0	5 - 25 %	OSHA 29CFR 1910.1200: Flammable liquids - Category 2 Eye Irritation - Category 2A STOT - Category 3 Reg. (EC) No. 1272/2008: Flammable liquids - Category 2 Eye Irritation - Category 2 STOT - Category 3 JIS 7252-2014 Flammable liquids - Category 2 Eye Irritation - Category 2 Eye Irritation - Category 2 STOT SE - Category 1,3 STOT RE - Category 1,2

SECTION 4 — FIRST AID MEASURES

4.1 Description of first aid measures

Eye Contact Flush with water for at least 15 minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin Contact Wash with soap and water. If skin irritation occurs: Get medical advice/

attention.

Ingestion Drink several glasses of water. DO NOT induce vomiting. Contact a

physician.

Inhalation Move subject to fresh air.

4.2 Most important symptoms and effects, both acute and delayed

None known

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5 — FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media Use an extinguishing agent suitable for the surrounding fire

Unsuitable Extinguishing Methods N/A

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture: Unknown

Hazardous thermal decomposition products: Unknown

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5.3 Advice for firefighter

Special protective actions for fire-fighters: Cool endangered receptacles with water spray. Remove containers from path of fire when safe to do so. Do not approach containers suspected to be hot.

Special protective equipment for fire fighters: Wear self-contained breathing apparatus and protective suit.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wearing protective clothing. Inhalation protection. Extinguish all ignition sources.

6.2 Environmental precautions

Biodegradable

6.3 Methods and materials for containment and cleaning up

Contain and collect material into plastic container. Water rinse and drain, flush small amounts. Use sanitary landfill disposal. Follow national and local regulations (RCRA; Subtitle D).

If Material is Released/Spilled: Keep spectators away. Contain spill with inert material (e.g. sand, earth). Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.

6.4 Reference to other sections

See SECTION 1, Emergency contact information.

See SECTION 8, Information on appropriate personal protective equipment.

See SECTION 13, Disposal Considerations, for information regarding the disposal of contained spills.

SECTION 7 — HANDLING AND STORAGE

7.1 Precautions for safe handling

Use in well-ventilated areas; avoid breathing vapors. Keep containers closed when not in use. Avoid from freezing.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry place with adequate ventilation. Keep from freezing - product may coagulate.

Storage temperature: Max. 49°C/120°F 1°C/34°F

7.3 Specific end uses N/A

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Component	Regulation	Type of listing	Value/Notation
Isopropanol CAS No.: 67-63-0	EU ACGIH EU ACGIH US OSHA Z-1	STEL	200 ppm 400 ppm 980 mg/m3 400 ppm

8.2 Exposure controls

Technical Control Measures	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.
Hygiene Measures	Wash hands before eating, smoking, or using washroom facilities
Individual protection measures	
Eye/Face Protection	Avoid contact with eyes. Use safety eye wear with splash guards or side shields (ANSI Z-87.1).

For EU: Safety glasses (with side shields) should be consistent with EN

166 or equivalent.

Skin Protection No precautions other than clean body covering clothing should be needed.

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Hand Protection Chemical protective gloves is not needed when handling this material.

Consistent with general hygienic practice for any material, skin contact should be minimized. In case of using gloves, use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). Avoid gloves made of: Polyvinyl alcohol

("PVA").

For EU:

In case of using gloves, use chemical resistant gloves classified according to standard SS-EN 374: Protective gloves against chemical and microorganisms.

In case of prolonged contact or repeated contact, it is recommended gloves with protection index grade 4 or higher (breakthrough time longer than 120 minutes according to standard SS-EN 374).

When only short-term contact is expected, it is recommended gloves with protective index class 1 or higher (breakthrough time longer than 10

minutes according to standard SS-EN 374).

For most conditions no respiratory protection should be needed; however, Respiratory Protection

> if discomfort is experienced, use an approved air-purifying respirator. Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. In the case of vapor formation use a respirator with an approved filter. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For EU: Use the following CE-approved filters: Filters against organic

gases with prefilter to particles, type AP2.

Ingestion Use good personal hygiene. Do not consume or store food in the work

area. Wash hands before smoking or eating.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Liquid Color: Clear violet Odor: Floral Alcohol Odor Threshold: No data available

6.0 - 8.0:Hg

Melting Point: No data available Boiling Point: >200°F (93.3°C) Flash Point: 106°F (41°C) Evaporation rate: 0.28

Flammability: Flammable Upper flammability or explosive limits: No data available Lower flammability or explosive limits: No data available

Vapor Pressure (mm Hg): 18.0 Vapor Density (air=1): 1.06

Relative Density: 8.17 lbs./gal at 20°C

Specific Gravity (H₂O = 1): 0.98 Solubility: Completely

Partition coefficient: No data available Auto-ignition temperature: No data available Decomposition temperature: No data available Viscosity: No data available Explosive properties: No data available Oxidizing properties: No data available

9.2 Other information

VOC per Method 24 of EPA: 9.4% VOC by wt.

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SECTION 10 — STABILITY AND REACTIVITY

10.1 Reactivity

N/A

10.2 Chemical stability

Stable product at normal conditions.

10.3 Possibility of hazardous reactions

N/A

10.4 Conditions to avoid

Temperatures above 100°F (38°C) and below 34°F (1°C)

10.5 Incompatible materials

Strong Oxidizers.

10.6 Hazardous decomposition products

Thermal decomposition may yield carbon monoxide.

SECTION 11 — TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Effects

Inhalation Slight irritation **Eye Contact** Slight irritation Skin Contact Slight irritation

Ingestion

Acute Toxicity

Isopropanol **Oral Toxicity** (Rat) LD50 = 5,045 mg/kgCAS No.: 67-63-0 **Dermal Toxicity** (Rabbit) LD50 = 12,800 mg/kgInhalation Toxicity (Rat) LC50 = 37.5 mg/l (4 h)

N/A

SECTION 12 — ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

The product is aqueous.

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

Product:

Additional ecological information

According to experience and to the information currently available, the product has no harmful effects on the environment if used correctly as

intended.

SECTION 13 — DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Contain and collect material into plastic container. Water rinse and drain, Product:

flush small amounts. Use sanitary landfill disposal. Follow state and local

regulations (RCRA; Subtitle D).

13.2 Additional information N/A

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SECTION 14 — TRANSPORT INFORMATION

DOT (Department of Transportation) Not regulated for transport Classification for SEA transport Not regulated for transport

(IMO-IMDG)

Classification for AIR transport

(IATA/ICAO)

Not regulated for transport

14.1 UN Number None
14.2 UN proper shipping name None

14.3 Transport hazard class(es) None

14.4 Packing group
None
14.5 Environmental hazards
None
14.6 Special precautions for user
None

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

SECTION 15 — REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture US Regulations:

Superfund Amendment and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986)

Section 302No chemicals in this material are subject to the reporting requirements of

SARA Title III, Section 302.

Section 313 The following components are subject to reporting levels established by

SARA Title III, Section 313: Isopropanol (CAS No.: 67-63-0)

Right To Know

	Massachusetts RTK	Pennsylvania RTK	New Jersey RTK
Isopropanol CAS No.: 67-63-0	Х	X	X

California Proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

EINECS Status All components of this product are listed or excluded from the EINECS

Inventories

TSCA All components of this product are listed or excluded from listing on United

States Environmental Protection Agency Toxic Substances Control Act

(TSCA) Inventory

REACH This product does not required REACH registration according to

Regulation (EC) 1272/2008

15.2 Chemical Safety Assessment N/A

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SECTION 16 — OTHER INFORMATION

HMIS RATING Health 1, Flammability 2, Reactivity 0, Personal Protection B NFPA RATING Special Hazard: N/A, Health: 1, Flammability: 2, Instability: 0

SDS Updated 2018-06-26

Disclaimer

OTHER INFORMATION: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or quarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitableness and completeness of such information for his own particular use.

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