

# Reztore™帯電防止表面 & マットクリーナー

MODEL: 10446/10447/10448 取扱説明書  
文書番号 TBJ-7062

**DESCO ASIA**

DESCO JAPAN 株式会社

## <はじめに>

この度は、Restore™帯電防止表面 & マットクリーナーをお買い上げいただき誠にありがとうございます。ごぞいます。

本製品は、ESD 対策マットやその他の作業台表面を掃除し維持するために使用します。絶縁性残留物を残し ESD 対策表面の特性を損なう可能性のあるシリコンや他の物質は含みません。また、無害かつ不燃性なので発送や保管の際に特別な取り扱いをする必要もありません。静電気に敏感なエリア内において、すべての表面から汚れや油脂、垢、指紋、ハンダ溶剤、他の残留物等を取り除きます。2-ブトキシエタノールやエタノールアミン、イソプロピルアルコール等の溶剤も含まれません。



## ご注意

- (1)本書の内容の一部または全部を無断転載することは禁止されています。
- (2)本書の内容に関しては将来予告なしに変更することがあります。
- (3)本書の内容について万全を期して作成致しましたが、万一ご不審な点や誤り、記載もれ等お気づきの事がありましたら、ご連絡下さい。

## <一般ガイダンス>

本製品は、静電気に敏感な環境下において様々な表面を掃除・維持するのにご使用いただけます。ゴムやビニール、ポリエチレンテーブル、フロアマット、フィールドサービスキット、ラミネートされたテーブル台、道具箱、エポキシ、塗装された表面、プレキシガラス、ガラス、金属、バインダー、PC スクリーン、PC キーボード、棚、荷台、コンベヤーベルト等、様々な表面に限りはございません。

「すべての作業場表面の電気的特性を維持するために、製造者の推薦に従って定期的に掃除することが必要です。シリコンを含む家庭用クリーナーなどの絶縁性残留物を残すクリーナーではないことを確認してください。」

(ESD ハンドブック ESD TR20.20 5.3.1.14 項 作業台表面メンテナンス)

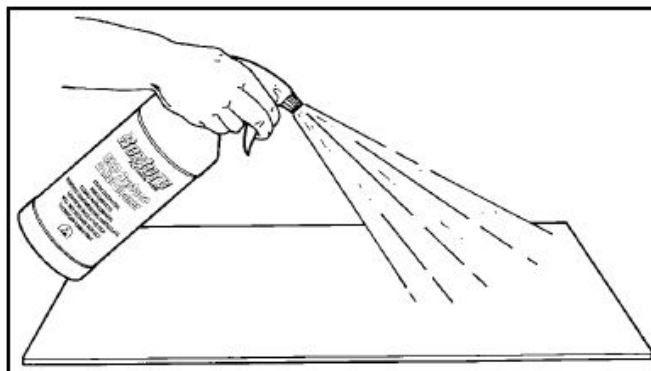
「ESD 対策製品の性質を損なう恐れのないクリーナーのみをご使用ください。」

(EN 61340-5-1 5.5 項 作業習慣)

## <使用方法>

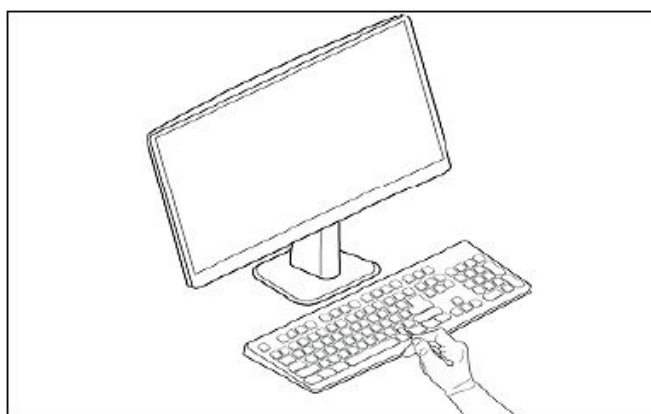
### 滑らかな表面:

本製品を表面全体に散布します。糸くずの出ない布を使って表面が乾くまで拭きます。染みを落とす場合は、本製品を 30 秒間表面に染みこませてから拭き取ってください。



### 他の表面 - キーボード:

糸くずの出ない布かモップを本製品で湿らせ、表面を拭きます。モップはキーボードのボタン間等細かい部分の掃除に最適です。キーボード表面の掃除には布をご使用ください。



ESD 対策ではない表面には Reztore® 帯電防止コーティングのご使用をお勧めいたします。表面がコーティングされると ESD 対策効果が高まり、絶縁性表面を静電気拡散性の電気的特性を持たせてくれます。

## <仕様>

液体の色	透明なスミレ色
pH	6.5~7.5
香り	フローラル
溶解性	水、アセトン、アルコール
毒性、刺激性、	通常使用においてはなし
燃焼性	不燃性
電気的特性(乾燥後)	$1 \times 10^7 \sim 1 \times 10^9 \Omega$ (ANSI/ESD S4.1 参照)
除電時間	0.01 秒未満 (FTMS 101C 4046 法に準拠)

## <テスト>

汚れや垢等の絶縁性汚染物質がすべてなくなったかどうかを確認するために、掃除後に表面のテストを行うことをお勧めいたします。本製品は、 $1 \times 10^9 \Omega$  未満の表面抵抗になるようコーティングされます。

## <保管>

本製品は使用期限を設けておりません。Safety Data Sheet に記載された適切な温度環境下に置いて保管した場合、時間経過による化学薬品の品質が下がることはありません。弊社では、本製品を元の箱に保管し、使用しない場合は密閉しておくことをお勧めいたします。

### RoHS および REACH、紛争鉱物

RoHS および REACH、紛争鉱物に関する詳細は

[http://www.descoasia.co.jp/PDF/REACHRoHSConflictMinerals-Desco\\_Bags.pdf](http://www.descoasia.co.jp/PDF/REACHRoHSConflictMinerals-Desco_Bags.pdf)

をご覧ください。

### 限定保証

弊社の保証規定に関する詳細は

<http://www.descoasia.co.jp/Limited-Warranty.aspx>

をご覧ください。

## 保証規定

本製品は、米国 DESCO Industries Inc. 社により製造され、日本国内の販売、保守、サービスは、DESCO JAPAN 株式会社が担当するものです。

本製品が万一故障した場合は、製品購入後一年以内については無料で修理調整を行います。ただし、以下の項目に該当する場合は、上記期間内でも保証の対象とはなりません。

- (1) 取扱説明書以外の誤操作、悪用、不注意によって生じた故障。
- (2) 当社以外で行われた修理、改造等による故障。
- (3) 火災、天災、地変等による故障。
- (4) 使用環境、メンテナンスの不備による故障。

保証の対象となるのは、本体で付属品、部品等の消耗は、保証の対象とはなりません。

\* 本保証は、上記保証規定により無料修理をお約束するもので、これによりお客様の法律上の権利を制限するものではありません。

\* 本保証内容は、日本国内においてのみ有効です。

機器に明らかなる不良がある場合については、下記内容を当社にご連絡下さい。

- |                    |                 |
|--------------------|-----------------|
| 1) 機種名または、品番       | 4) ご購入年月日       |
| 2) 製品シリアルナンバー      | 5) 御社名、部署名、担当者名 |
| 3) 不良内容(できるだけ具体的に) | 6) 連絡先          |

以上の内容を検討致し返却取扱ナンバーを御社に連絡致します。製品を返却する場合は、返却取扱ナンバーを製品に添付してご返却下さい。

返却ナンバーが表示されていない場合は、保証の対象とならない場合があります。

# DESCO ASIA

DESCO JAPAN 株式会社

〒289-1115

千葉県八街市八街ほ 661-1

Tel: 043-309-4470 Fax: 043-332-8741

<http://www.descoasia.co.jp/>

## 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: 2018-05-30

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

#### 1.1 Product identifiers

Product Name: Reztore® Alcohol-Free ESD 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

One Colgate Way  
Canton, MA 02021  
+1 781-821-8370

##### United Kingdom

2A Dunhams Lane  
Letchworth Garden City  
Hertfordshire, SG6 1BE  
+44 (0) 1462 672005

##### Japan

661-1 Yachimata-ho  
Yachimata-Shi  
Chiba-Ken 289-1115  
+81 43-309-4470

Email Address: [Service@DescolIndustries.com](mailto:Service@DescolIndustries.com)

#### 1.4 Emergency telephone number

United States: +1 781-821-8370

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

The product is not hazardous under the criteria for classification in any hazard class.

#### 2.2 Label elements

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

No label element(s) required.

2.3 Other hazards None known

### SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

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

The product does not meet the criteria for classification. None of the components shall be listed as a substance in the mixture.

### SECTION 4 — FIRST AID MEASURES

#### 4.1 Description of first aid measures

Eye Contact	Not expected to cause eye irritation. If adverse effect occurs, flush eyes with water.
Skin Contact	Not expected to cause skin irritation. If adverse effect occurs, rinse skin with water.
Ingestion	May cause upset stomach. Drink plenty of water to dilute.
Inhalation	Not expected to cause respiratory irritation. If adverse effect occurs, move 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.

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## 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

### 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.

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## SECTION 6 — ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel                      No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not walk through spilled material. Wear appropriate personal protective equipment.

### 6.2 Environmental precautions

Methods and material for containment and cleaning up: absorb liquid components with liquid-binding material. Dispose contaminated material as waste according to SECTION 13. Ensure adequate ventilation.

### 6.3 Methods and materials for containment and cleaning up

Small spill    Stop leak if without risk. Move containers from spill area. Absorb with an inert dry material and place in a suitable and labeled waste disposal container.

Large spill    Stop leak if without risk. Move containers from spill area. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulation (SECTION 13). After clean up operations, decontaminate and launder all protective clothing and equipment before storing.

### 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.

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## SECTION 7 — HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Ensure adequate ventilation. Do not pierce any part of the container. Do not mix or contaminate with any other chemical. Do not eat, drink or smoke while using this product.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool dry place in original container and protect from sunlight.

Keep container tightly sealed. Store in original container away from food stuff containers.

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

### 7.3 Specific end uses

**Recommendations:** For cleaning surfaces with static control properties.

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## SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

### 8.1 Control parameters

Not available.

### 8.2 Exposure controls

Appropriate engineering controls      Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Individual protection measures

Hygiene Measures      Wash hands after handling and before eating, smoking, or using the lavatory and at the end of the working period. When using, do not eat or drink or smoke.

Eye/Face Protection      May use without safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin/Hand Protection      Avoid prolonged or repeated skin contact. Impervious gloves such as nitrile, neoprene or rubber are recommended. The glove material has to be impermeable and resistant to the product.

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## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance:      Liquid  
Color:      Transparent Violet  
Odor:      Floral  
Odor Threshold:      Not available  
pH:      7.0 - 7.5  
Melting Point:      Not determined  
Boiling Point:      212 °F (100 °C)  
Flash Point:      Does not flash  
Evaporation rate:      < 1 (butyl acetate = 1)  
Flammability:      Non-flammable  
Upper flammability or explosive limits:      Non applicable  
Lower flammability or explosive limits:      Non applicable  
Vapor Pressure (mm Hg):      2.4 kPA (18 mmHg)  
Vapor Density (air=1):      Non applicable  
Relative Density:      1  
Specific Gravity (H<sub>2</sub>O = 1) :      Non applicable  
Solubility:      Completely  
Partition coefficient:      Non applicable  
Auto-ignition temperature:      Not determined  
Decomposition temperature:      Not determined  
Viscosity:      Non applicable  
Explosive properties:      Non applicable  
Oxidizing properties:      Non applicable

### 9.2 Other information

VOC per Method 24 of EPA:      0.7 % VOC by wt.

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## SECTION 10 — STABILITY AND REACTIVITY

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.



**10.4 Conditions to avoid**

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

**10.5 Incompatible materials**

None known.

**10.6 Hazardous decomposition products**

No decomposition if stored and applied as directed.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

None known.

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**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.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

Product:

Contain 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).

**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 (IMO-IMDG) Not regulated for transport

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.

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## SECTION 15 — REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### SARA Title III - Hazardous Chemical Inventory

Section 304	This product does not contain any component with a section 304 EHS RQ.
Section 311/312	This product does not have any SARA Hazard.
Section 302	No chemicals in this product are subject to the reporting requirements of SARA Title III, Section 302.
Section 313	No chemicals in this product are subject to SARA Title III Section 313 reporting requirements under 40 CFR 372.

#### 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 the 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 0, Flammability 0, Reactivity 0, Personal Protection B
NFPA RATING	Special Hazard: N/A, Health: 0, Flammability: 0, Instability: 0
SDS Updated	<b>2018-05-30</b>

### 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 guarantee 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 suitability and completeness of such information for his own particular use.