

CHEMTRONICS® Technical Data Sheet

TDS # 1664T

Static Free™ Mat & Benchtop Reconditioner

PRODUCT DESCRIPTION

Static Free™ Mat & Benchtop Reconditioner is an excellent surface cleaner specifically engineered for use in ESD sensitive environments. Static Free™ Mat & Benchtop Reconditioner penetrates and lifts light greases, oils, fingerprints and flux residues from surfaces while providing static dissipative protection.


- Excellent for use on nonporous opaque surfaces
- Will not dry mat surfaces with repeated use
- Cleans while leaving a static dissipative surface treatment
- Long-lasting dissipative protection; up to 30 days
- Effective in relative humidities below 15%
- Chloride and amine free formulation
- Noncorrosive
- Meets static decay criteria of MIL-B-891705C
- Nonflammable
- Safe on surfaces not harmed by water
- Nonabrasive

TYPICAL APPLICATIONS

Static Free™ Mat & Benchtop Reconditioner cleans and adds static dissipative protection to:

- Benchtops, Storage Cabinets
- Production/Assembly Surfaces
- Static Dissipative/Antistatic Mats
- Tool Cribs

TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

Appearance	Clear Liquid
Odor	Pleasant/Clean
Specific Gravity (@ 77°F (25°C))	0.997 g/ml
pH	6.0
Flashpoint (TCC)	None to Boiling
Shelflife	2 years after opening
RoHS/WEEE Status	

COMPATIBILITY

Static Free™ Mat & Benchtop Reconditioner is excellent for use on most surfaces not harmed by water. As with any cleaning product, compatibility must be determined on a non-critical area prior to use.

AVAILABILITY

ES1664T 16 fl. oz. Trigger Spray

<u>Material</u>	<u>Compatibility</u>
ABS	Excellent
Buna-N	Excellent
EPDM	Excellent
Graphite	Excellent
HDPE	Excellent
Kynar™	Excellent
LDPE	Excellent
Lexan™	Excellent
Neoprene	Excellent
Nylon™ 66	Excellent
Cross-Linked PE	Excellent
Polypropylene	Excellent
Polystyrene	Excellent
PVC	Excellent
Silicone Rubber	Excellent
Teflon™	Excellent
Viton™	Excellent

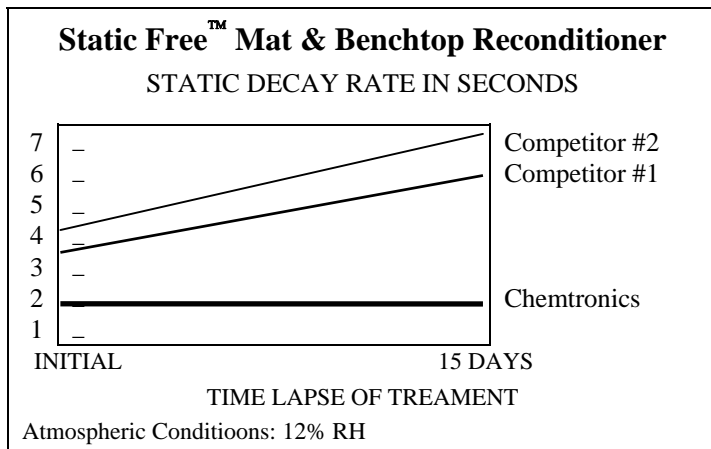
ENVIRONMENTAL IMPACT DATA

ENVIRONMENTAL IMPACT DATA			
CFC	0.0%	VOC	5.0%
HCFC	0.0%	HFC	0.0%
CL Solv.	0.0%	ODP	0.0

CFC, HCFC, CL. SOLV., VOC, and HFC numbers shown are the content by weight. Ozone depletion potential (ODP) is determined in accordance with the Montreal Protocol and U.S. Clean Air Act of 1990. The ODP of this product is 0.0. It is the sum of the ODP of the substances that may contribute to the depletion of stratospheric ozone, based upon the weight of each substance in the product's formulation.

NOTE:

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. CHEMTRONICS® does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.



USAGE INSTRUCTIONS

For industrial use only.

Read MSDS carefully prior to use.

Spray generously 6-12 inches from surface to be cleaned. Allow product to penetrate soils, then wipe clean with Chemtronics®

Controlwipes™ or Twillwipes™.

SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Information: 800-TECH-401

Product Identification

STATIC FREE™ MAT & BENCHTOP RECONDITIONER (Liquid)
(Formerly Static Free SD-22)

Product Code: ES1664T

SECTION 2: COMPOSITION, INFORMATION ON INGREDIENTS

Product Ingredient Information	CAS#	Wt. % Range
Deionized water	7732-18-5	90.0-95.0
Propylene Glycol Methyl Ether	107-98-2	0.1-5.0
Dipropylene Glycol Methyl Ether	34590-94-8	1.0-5.0
Nonylphenoxy polyethoxy ethanol	9016-45-9	0.1-1.0
Propylene glycol n-butyl ether	5131-66-8	0.5-1.5
Quaternary ammonium compound	68308-67-8	0.1-2.0

SECTION 3: HAZARD IDENTIFICATION

Emergency Overview: Clear, colorless liquid with pleasant clean odor. Liquid will irritate eyes and skin under repeated or prolonged exposure. Breathing high concentrations of product vapor may produce drowsiness and a headache. This product is not flammable.

Potential Health Effects:

Eyes: Liquid and vapors of this product are irritating.

Skin: Contact may cause skin irritation.

Ingestion: Harmful if swallowed. Irritating to mouth, throat and stomach. May cause vomiting.

Inhalation: No hazard in normal industrial use. Vapors or atomized particles may be irritating to eyes and respiratory tract.

Pre-Existing Medical Conditions Aggravated by Exposure: Skin and eye.

SECTION 4: FIRST AID MEASURES

Eyes: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel if irritation develops or persists.

Skin: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists. Wash clothing separately before reuse.

Ingestion: Swallowing less than an ounce will not cause significant harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get immediate medical attention.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: None to boiling (TCC)

LEL/UEL: Not established (% by volume in air)

Extinguishing media: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Large Spills: Shut off leak if possible and safe to do so. Wear appropriate personal protective equipment. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container for proper disposal. Do not flush to sewer. Avoid runoff into storm sewers and ditches which lead to waterways.

Small Spills: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container for proper disposal.

SECTION 7: HANDLING AND STORAGE

Avoid prolonged or repeated contact with eyes, skin, and clothing. Wash hands before eating. Use with adequate ventilation. Avoid breathing product vapor or mist. Do not reuse this container. Store in a cool dry place away from heat, sparks and flame. Keep container closed when not in use. Do not store in direct sunlight.

KEEP OUT OF REACH OF CHILDREN.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Guidelines:

CHEMICAL NAME	ACGIH TLV	OSHA PEL	ACGIH STEL
Nonylphenoxy polyethoxy ethanol	NA	NA	NA
Dipropylene Glycol Methyl Ether	100 ppm	100 ppm	150 ppm
Propylene Glycol Methyl Ether	100 ppm	NA	150 ppm
Propylene glycol n-butyl ether	NA	NA	NA

Work/Hygienic Practices: Good general ventilation should be sufficient to control airborne levels. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. If vapor concentration exceeds TLV, use NIOSH approved organic vapor cartridge respirator. Wear safety glasses with side shields (or goggles) and rubber or other chemically resistant gloves when handling this material.

NFPA and HMIS Codes:

	NFPA	HMIS
Health	1	1
Flammability	0	0
Reactivity	0	0
Personal Protection	-	B

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear, colorless liquid

Odor: Pleasant, clean

pH: 5.5-6.5

Vapor Pressure: 18 mm Hg @ 68F

Vapor Density: > 1

(Air =1)

Boiling Point: 212°F (100C)

Solubility in Water: Completely

Gravity: (Water =1) 0.997

Evaporation Rate: <1

(Butyl acetate=1):

Viscosity: 1 (Approx.)

(Water =1)

Percent Volatile: 100%

Melting Point: NA

SECTION 10: STABILITY AND REACTIVITY

Stability: This product is stable. Conditions to Avoid: Do not spray near open flames, red hot surfaces or other sources of ignition.

Incompatibility: Do not mix with strong acids or strong oxidizing agents.

Products of Decomposition: Thermal decomposition may release carbon monoxide, carbon dioxide and incompletely burned hydrocarbons.

Hazardous Polymerization: Will not occur

Conditions to Avoid: NA

SECTION 11: TOXICOLOGICAL INFORMATION

Inhalation:

Propylene glycol methyl ether Human TCLo 3000 ppm

Ingestion:

Propylene glycol methyl ether Rat LD50 5660 mg/kg

Dipropylene glycol methyl ether Rat LD50 5135 mg/kg

Propylene glycol n-butyl ether* Rat LD50 3300 mg/kg

* Information provided by manufacturer.

Cancer Information: No ingredients listed as human carcinogens by NTP or IARC

Reproductive effects: none

Teratogenic effects: none

Skin:

Propylene glycol methyl ether Rabbit 500 mg Open; MLD

Dipropylene glycol methyl ether Rabbit 500 mg Open; MLD

Propylene glycol n-butyl ether Rabbit LD50 3100 mg/kg

Eye:

Propylene glycol methyl ether Rabbit 230 mg; MLD

Dipropylene glycol methyl ether Rabbit 238 mg; MLD

Mutagenic effects: none

SECTION 12: ECOLOGICAL INFORMATION**Environmental Impact Information**

Avoid runoff into storm sewers and ditches which lead to waterways. Water runoff can cause environmental damage.

REPORTING

US regulations require reporting spills of this material that could reach any surface waters. The toll free number for the US Coast Guard National Response Center is: **1-800-424-8802**

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with all federal, state and local regulations. Water runoff can cause environmental damage.

SECTION 14: TRANSPORTATION INFORMATION

For Ground and Air Transportation shipments:

Proper Shipping Name: Cleaning Compound

Not Regulated

SECTION 15: REGULATORY INFORMATION**SECTION 313 SUPPLIER NOTIFICATION**

This product contains no toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).

This information should be included on all MSDSs copied and distributed for this material.

TOXIC SUBSTANCES CONTROL ACT (TSCA)

All ingredients of this product are listed on the TSCA Inventory.

WHMIS: Class D2B

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16: OTHER INFORMATION

Normal ventilation for standard manufacturing practices is usually adequate. Local exhaust should be used when large amounts are released.

To the best of our knowledge, the information contained herein is accurate. However, all materials may present unknown hazards and should be used with caution. In particular, improper use of our products and their inappropriate combination with other products and substances may produce harmful results which cannot be anticipated. Final determination of the suitability of any material is the sole responsibility of the user. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that may exist.