Charge-Guard[®] Surface & Mat Cleaner Application Instructions





Figure 1. Charge-Guard[®] *Surface & Mat Cleaner:* 8002 1 quart (1 litre) spray bottle 8003 2.5 Gallon (10 litre) Bag-in-Box

Description

Charge-Guard[®] 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. Charge-Guard[®] Surface & Mat Cleaner leaves no insulative residue, contains no alkali or ammonia, and is nonflammable.

General Guidelines

Charge-Guard[®] 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 Charge-Guard[®] 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 Charge-Guard[®] Surface & Mat Cleaner soak on the surface for 30 seconds before wiping clean.



Figure 2. Applying Charge-Guard[®] to the mat.

Other Surfaces - Keyboards:

Dampen a lint-free cloth or a lint-free swab with Charge-Guard[®] 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 Charge-Guard[®] Surface & Mat Cleaner.

On non-ESD surfaces, we recommend using SCS Antistat static dissipative spray. While coating is on the surface it will enhance existing ESD surfaces and will give dissipative electrical properties to insulative surfaces.

Specifications Appearance of solution: pH: Odor:	Transparent viol 6-8 Slight floral	et
Solubility:	Water, acetone,	alcohols
Toxicity, Irritation, Sensitivity:	Non-toxic by der contact, or inhal	
Flammability:	Classification ac to NFPA and OS "non-flammable" Flammable Cate according to EU GHS.	SHA as , egory 3
lon Level:		(mg/l)
	Fluoride Sulfate Nitrate Bromide Phosphate	0.3 <0.5 1.2 <0.5 <0.5
Electrical Properties (Dry Film)		
Static Decay Rate:	1 x 10 ⁷ to < 1 x 10 ⁹ ohms (ref. ANSI/ESD S4.1) <.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. Charge-Guard[®] Surface & Mat Cleaner will only leave behind a coating with a surface resistance of less than 1 x 10^9 ohms.

Storage:

Charge-Guard[®] 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 2, REACH, and Conflict Minerals Statement

None of the RoHS 2 restricted materials or REACH substances of very high concern as of 2014/12/17, or Conflict Minerals are intentionally added in manufacturing this product. Ref: European Union Directive 2011/65/EU and Regulation (EC) No. 1907/2006/CE. See SCS Limited Warranty at StaticControl.com.

Limited Warranty, Warranty Exclusions, Limit of Liability and RMA Request Instructions

See SCS Warranty http://www.StaticControl.com/Warranty.aspx

Safety Data Sheet		NFPA Designation 704 Health T I Red	
May be used to comply with ANSI Z400.1-2	2004, 29 CFR	Degree of Hazard	
1910.1200, Regulation (EC) No 1272/2008 and GHS. Standards must be consulted for		4 = Extreme 1 = Slight 3 = High 0 = Insignificant	
requirements.		2 = Moderate Special Hazard	
		th 1, Flammability 1, Physical Hazard 0, Personal Protection B	
SECTION 1 — CHEMICAL PRODUCT	AND COMPANY I	DENTIFICATION	
Product Name/Identity: Chemical Name:	Charge-Guard [®] Su	urface and Mat Cleaner	
Manufacturer:	Cleaner, ESD Surface & Mat Desco Industries, Inc		
Address:	One Colgate Way Canton, MA 0202	1	
Telephone: Emergency Number:	781-821-8370 781-821-8370		
SECTION 2 — HAZARDS IDENTIFIC			
Classification:			
Flammable liquid	Category 3		
Eye irritation	Category 2A-2B		
Labelling:			
Symbol:	Flame, Exclamatio	on mark.	
Signal word:	Warning.		
Hazard statement:	Flammable liquid a	and vapour. Causes eye irritation.	
Precautionary statements:	IF SWALLOWED: Immediately call a POISION CENTER or doctor/physician. DO NOT induce vomiting. Store in a well-ventilated place. Keep cool. Do not eat, drink or smoke when using this product. Keep away from heat/sparks/open flames/hot surfaces. No smoking.		
SECTION 3 — COMPOSITION/INFOR	MATION ON INGR	EDIENTS	
Hazardous Ingredients:	CAS No.	Weight (%)	
Isopropanol*	67-63-0	5-25%	
SECTION 4 — FIRST AID MEASURE	S		
Eye Contact:	Flush with water for	Flush with water for at least 15 minutes.	
Skin Contact:	Wash with soap a	Wash with soap and water.	
Ingestion:	DO NOT induce vomiting. Contact a physician.		
Inhalation:	Move subject to fr	esh air.	
SECTION 5 — FIREFIGHTING MEAS	URES		
Proper Extinguishing Media:	Water.		
Unsuitable Extinguishing Methods:	N/A.		
Protective Equipment & Precautions:	Wearing of approp	priate protective equipment and clothing.	
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Special Fire Fighting Procedures:	Cool containers with wa	ater.		
Unusual Fire and Explosion Hazards:	None known.			
SECTION 6 — ACCIDENTAL RELEASE MEASURES				
Personal Precautions:		hing. Inhalation protection. Extinguish all ignition		
Environmental Precautions:	Biodegradable.			
Cleaning Procedures:		terial into plastic container. Water rinse and drain, se sanitary landfill disposal. Follow state and local btitle D).		
SECTION 7 — HANDLING AND STOP	RAGE			
Handling:	Use in well-ventilated a closed when not in use	areas; avoid breathing vapors. Keep containers e. Avoid from freezing.		
Storage:	Storage temperature: N Keep from freezing	/lax. 49°C/120°F 1°C/34°F		
SECTION 8 — EXPOSURE CONTROL	/ PERSONAL PROTEC	CTION		
Hazardous Ingredients:	CAS No.	TLV-value		
lsopropanol*	67-63-0	400 ppm		
Exposure controls				
Control Parameters:	TLV-value 400 ppm ma	aximum 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.			
Personal protective equipment (PPE)			
Respiratory Protection (Specify Type):	Wear MSHA/NIOSH ap exceeded.	oproved respirator where exposure limits are		
Hand Protection:	Impervious/Neoprene (Gloves.		
Eye Protection:	Safety glasses or Cher similar standard.	nical splash goggles as defined in ANSI Z-87.1 or a		
Work/Hygienic Practices:	Wash hands before ea	ting, smoking, or using washroom facilities.		
SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES				
Form: Color: Odor: Boiling Point: Melting Point: Specific Gravity (H ₂ O = 1): Solubility in Water: pH: VOC per Method 24 of EPA: Flash Point: Flammability Limits: (vol. % in air)	Liquid. Clear violet. Floral Alcohol. >200°F (93.3°C) N/A. 0.98 Complete. 6-8 1% VOC by wt. 106°F (41°C) N/A.			
Vapor Pressure (mm Hg): 18.0				
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Vapor Density (air=1): Density at 20°C: Flammability:	1.06 8.17 lbs. /gal Classification according to NFPA and OSHA as "non-flammable". Flammable Category 3 according to EU and GHS.			
Ignition Temperature: Evaporation Rate:	N/A. 0.28			
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:	N/A.			
SECTION 11 — TOXICOLOGICAL INF	ORMATION			
All information refers to the main component Isopropanol				
Acute toxicity:	None known.			
Special Effects:	None known.			
SECTION 12 — ECOLOGICAL INFORMATION				
No environmental hazards have been re	eported 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.			
SECTION 13 — DISPOSAL CONSIDERATIONS				
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).			
SECTION 14 — TRANSPORT INFORM	ΜΑΤΙΟΝ			
This product is not classified for transport under ADR/IMDG regulations.				
This product is not classified as a flammable liquid according to DOT and IATA transportation standards and is not regulated as such.				
SECTION 15 — REGULATORY INFORMATION				
Physical/Chemical Indication:	Non-flammable (NFPA and OSHA), Flammable (EU and GHS)			

*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 CFR37: CAS Number 111-90-0 with maximum weight 25%.

EINECS Status: TSCA:	All components are included in the EINECS inventories. 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.	
SECTION 16 — OTHER INFORMATIO	N	
HMIS RATING:	Health 1, Flammability 1, Physical Hazard 0, Personal Protection B	
NFPA RATING:	Special Hazard: N/A, Health: 1, Flammability: 1, Instability: 0	
SDS Updated: 2016-07-07		
	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 suitableness and completeness of such information for his own particular use.		