STATIC DISSIPATIVE TOPICAL ANTISTAT · SURFACE TREATMENT

I.C.® TOPICAL ANTI-STAT

Topical Antistatic Surface Treatment · Solucion Antiestatica Topica · Alcohol free, non-flammable

PRODUCT DESCRIPTION

I.C. Topical Anti-Stat is a general purpose antistat used for static prevention in critical manufacturing environments. It applies an antistatic coating to handheld equipment, cleanroom surfaces and other static generating materials, helping dissipate static charge on insulative surfaces and reduce tribocharging and static build up on plastics, boxes and carpets. Once applied, the coating works as a dust and dirt barrier that cuts static cling from surfaces to help maintain equipment function. It contains no alcohol, ammonia, amines or silicones, and is made with DI water, filtered and UV treated.

DIRECTIONS FOR USE

Spray antistat liberally on surface and allow to dry thoroughly. May also be applied by wiping, dipping, transfer roller coating, gravure coating or flexographic printing; allow time to dry.

USES

- Treat objects to temporarily protect them from static charge
- Helps remove static cling and dust and dirt attraction
- Coat handheld objects, fabrics, equipment or surfaces with an antistatic layer
- Surface treatment of polymers used in electronic parts packaging

APPLICATIONS

Electronics, Healthcare, Office, Industrial. Terminals, screens, plastics, boxes, carpets and other porous non-conductive materials.

FEATURES & BENEFITS

ANTI-STATIC COATING	Treat objects or clothing to apply an antistatic layer
CLEANROOM SUITABLE	Designed for use in cleanroom or sterile environments
SURFACE RESISTANCE	Maintains surface resistivity between 1×10^4 and 1×10^{11} at 12% humidity
RAPID DECAY	Decays static in less than 2 seconds at 12% humidity
DUST AND DIRT BARRIER	Helps stop dust or dirt from clinging onto surfaces
FABRIC-SAFE	Compatible with carpets, clothes, curtains, drapes, furniture and other dust-prone furnishings
STAIN-FREE FORMULA	Mild formulation does not leave chemical stains
QUICK-DRYING	Simple application dries quickly
FREE-OF FORMULA	Made without silicone, alcohol or other flammable solvents; free of artificial fragrances
ESD SAFE	Formulated without chemicals that can harm ESD surfaces or mats
PCB SAFE	Will not contaminate or corrode sensitive components and assemblies
TRACE-CHECKED	Less than 100 PPM of trace metals and PCB contaminants such as alkali, bromides, chlorides, sodium, aluminum, calcium, magnesium
BIODEGRADABLE	Biodegradable water-based formula

FREE OF

- ALCOHOL-FREE
- AMMONIA-FREE
- AMINE-FREE
- SILICONE-FREE
- ALKALI-FREE
- NON-FLAMMABLE

WORKPLACE SPECIFICATIONS

- Supports an ANSI/ESD S20.20 program
- Static decay tested per FTM 101C Method 4046 (MIL-B-81705, EIA-541, NFPA-56A / NFPA 99 limits)
- Surface resistance tested to ESD ADV 11.21: 1×10^4 to $<1\times10^{11}$ Ω
- EIA 625: keeps triboelectric charges well below 200 volts
- References DOD-HDBK-263 (ESD control handbook)
- RoHS compliant (label)

INGREDIENTS

Purified DI Water, N,N-Bis(2-hydroxyethyl)-N-(3′-dodecyloxy-2′-hydroxypropyl) Methyl Ammonium Methosulfate

R&R LOTION USA

I.C.® TOPICAL ANTI-STAT

APPEARANCE

PRODUCT TYPE	Clear colorless liquid
COLOR	Colorless
ODOR	Characteristic
PH	Neutral
VISCOSITY	0–20 cPs, Spindle #3 @ 60 RPM

STORAGE TEMPERATURE & SHELF LIFE

This product has a shelf life of at least 24 months from the date of manufacture when stored unopened at room temperature. Avoid temperatures above 115°F (2026 SDS).

EFFICACY TESTING

Static decay. Measures the ability of a grounded material to dissipate a known charge induced on its surface. Insulative film treated with I.C. Anti-Stat and air dried: dissipates a 5 kV charge 99% (1% cut off) at 12% humidity, average decay 0.07 seconds (FTM 101C Method 4046; EIA-541 / MIL-B-81705-D limit < 2.0 s). At 40% RH: < 0.01 seconds at the 10% (500 V) and 1% (50 V) cutoffs (NFPA 99 limit < 0.50 s).

Surface resistivity (ASTM D257). Resistance between two electrodes applied under load to the treated surface. Insulative film, air dried 48 hours: 5.51×10^{9} Ω/sq at 12% RH; 7.02×10^{8} Ω/sq at 40% RH (static dissipative).

Surface resistance (ESD STM11.11). Ohms measurement used to evaluate static dissipative materials. Insulative film, air dried 48 hours: 5.51×10^{8} Ω at 12% RH; 7.02×10^{7} Ω at 40% RH (static dissipative).

REGULATORY

I.C. Topical Anti-Stat is an industrial antistatic surface treatment. It is not a drug, cosmetic, sanitizer or disinfectant. Manufactured in an FDA and EPA registered and audited facility. Not a dangerous substance according to GHS (SDS).

FDA EST. ID	3004167955
EPA FACILITY	91651-AZ-001
FDA DRUG CODE PREFIX	59555
GOV'T CONTRACT	GSA / VA / DOD 47QSMS24D0078

SIZES & PART NUMBERS

PART NO.	SIZE	CASE	UPC
ICAS-16-ESD	16 oz. ESD blue bottle with sprayer	10	666080848378
ICAS-32-ESD	32 oz. ESD blue bottle with sprayer	12	666080848385
ICAS-GAL	1 gallon refill bottle	4	666080847562

Exclusively available in 16 oz. and 32 oz. static dissipative spray bottles; experts say regular plastic spray bottles should not be used around static sensitive components (label). The 16 oz. and 32 oz. bottles are blow molded with ESD properties and can dissipate a 2000 volt charge in less than two seconds.

SAFETY DATA SHEETS

For safety, environmental, handling, first aid and disposal information, refer to the Safety Data Sheet in the SDS library at **rrlotion.com/msds/**. **Warning (label):** Not to be taken internally. Keep out of reach of children. Use adequate ventilation. Avoid prolonged skin contact. Always wear safety glasses or goggles.

QUICK CHEMICAL REGULATORY REFERENCES

PROP 65	No known substances
ROHS	No known substances
TSCA	No known substances
SARA	No known substances
REACH	No known substances

QUALITY ASSURANCE

Facility standards. R&R Lotion facilities follow Current Good Manufacturing Practice (cGMP) and/or Cosmetic GMP requirements.

Material standards. Incoming raw materials must undergo quality inspection and are efficacy tested prior to being used for manufacturing.

Equipment standards. All equipment and tools utilized are cleaned and sanitized both before and after use once verified by QA using sterility testing equipment.

Formula testing. Formulas developed by R&R Lotion undergo a series of tests and approvals to verify stability, product efficacy and preservative effectiveness.

Finished product testing. Every batch produced by R&R Lotion must go through physical, chemical and microbiological testing prior to being approved for distribution. This includes in-house lab testing of appearance, color, odor, density, pH and viscosity, followed by third-party active ingredient efficacy and product sterility testing.

Product traceability. The collection and annual review of all raw materials, finished goods, process controls and formulas allows for consistent control and correction in good manufacturing and documentation procedures.

R&R LOTION USA

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