

AegisGuard™ LS Radiation Shield User Instructions

Thank you for purchasing this AegisGuard™ LS Radiation Shield.

PLEASE READ THIS PAGE FIRST

• **AegisGuard™ LS thickens and becomes white when stored or shipped at temperatures below 65° F. (19° C.). Before initial use, or if this occurs at any time thereafter, put bottle with the cap on in provided plastic bag, seal it and place in hot tap water for 20 minutes. DO NOT BOIL OR MICROWAVE. SAVE BAG FOR FUTURE USE.**

- Remove bottle, shake well and store above 65° F. (19° C.) with cap on bottle. Retain bag for future use.
- Always turn off electrical and electronic product power and remove the power cord, if so equipped, before applying this product.
- The spray head applies a fine mist. Spray surfaces lightly until covered with liquid. Do not saturate.
- Do not spray into eyes.
- Wipe sprayed non-porous surfaces thoroughly dry as soon as possible, but not more than 30 minutes after spraying, using a clean soft cloth or paper towel. The amount of pressure applied within 30 minutes after spraying will not affect shielding effectiveness.
- Clean up with soap and warm water.
- This product is compatible with all AegisGuard™ products. Do not use with any other brand of radiation shielding products.

Follow the installation instructions on the back of this page for your application.

IMPORTANT

One application is required for surfaces never washed, become wet, or are exposed to frequent friction. AegisGuard™ LS must be reapplied periodically for frequently handled products, including wireless phones, communicators, tablets, laptop computers, headsets, eyewear, medical devices, touch-screens etc., or when they are washed or become wet, including windows and skylights. The use of a protective outer case for frequently handled products increases reapplication intervals.

Using a 1 FL OZ (29.57 ml) bottle for typical coverage examples, cell phones are 15 - 20 times, tablets 10 times, or the front, top and one side of a tower computer 2 times.

Size	Coverage
1 FL OZ (29.56 ml)	2.5 sq ft (0.23 m ²)
2 FL OZ (59.13 ml)	5.0 sq ft (0.46 m ²)
4 FL OZ (118.25 ml)	10.0 sq ft (0.92 m ²)
8 FL OZ (236.52 ml)	20.0 sq ft (1.85 m ²)

Handheld reapplication recommendations shown are conservative estimates for cell phones and other frequently handled products to ensure optimum shielding protection.

ABOUT AEGISGUARD™ LS RF & EMF RADIATION SHIELDS

NOTE: The frequency range of your product appears on the product label.

AegisGuard™ LS applications are virtually unlimited. When properly applied, it provides unsurpassed shielding protection by deflecting and scattering (breaking apart) the radiation emitted by electrical and electronic products and networks (see specifications) away from the user without affecting a products appearance, performance, power consumption, or wireless signal strength.

Hypoallergenic AegisGuard™ LS Radiation Shields are non-conductive, non-absorbent, and safe to use, even by electrosensitive (EHS) individuals as a body lotion. It contains no animal by-products, fluorocarbons, MDF, nickel, silver, copper, graphene or other metal, nor are they harmful to humans or animals in any manner whatsoever. There has never been an adverse or allergic reaction reported by any user.

REAPPLICATION RECOMMENDATIONS		
Daily Usage	Without Protective Case	With Protective Case
1 Hour	40 Weeks	18 Months
2 Hours	20 Weeks	12 Months
4 Hours	10 Weeks	8 Months
6 Hours	7 Weeks	6 Months
8 Hours	5 Weeks	4 Months
10 Hours	4 Weeks	2 Months
12 Hours	2 Weeks	1 Month
14 Hours	1 Week	2 Weeks
16 Hours	Every 3 Days	Weekly

Spray product with the power off and wipe dry. It will not stain fabric after surfaces are dry, and easily washes off completely with soap or laundry detergent and warm water.

AegisGuard™ LS proprietary discriminatory shielding compounds are microencapsulated in an unscented liquid made from natural ingredients derived solely from plants, resulting in a consistency similar to very lightweight oil.

The liquid serves as a medium to transfer shielding compounds via the spray head onto surfaces, where they expand upon contact and adhere within seconds after being applied (*the shielding compounds will not adhere to the recyclable AegisGuard™ LS bottle, PET/PETE, HDPE or LDPE containers used for beverages, shampoos, etc.*).

Wipe surfaces of AC or DC power sources dry after spraying, and wipe porous surfaces dry or leave in place, such as wood, until fully absorbed. Surfaces are not marred or damaged in any manner and the visibility of glass or plastic, including lenses, is unaffected after completely removing the liquid.

AegisGuard™ LS Radiation Shields Specifications		
Operating Frequency	Shielding Effectiveness*	Testing Standards
5 Hz. to 100 Hz.	99.998%	(a, b)
Up to 2.6 GHz.	99.997%	(a, b, c)
Up to 30 GHz.	99.997%	(a, b, c)
Up to 120 GHz.	99.996%	(a, b, c, d)
Up to 360 GHz.	99.994%	(a, b, c, d)
Up to 1.1 THz.	99.993%	(a, b, c, d)
Storage Temperature: 35° to 90° F. (2° to 32° C.)		
*Shielding effectiveness exceeds human RF exposure limit safety requirements as set forth in FCC OET Bulletin 65, up to 25 Watts at point of contact.		
(a) ASTM D-4935-10, D4935-99, and D4935-18 up to 1.5 GHz.		
(b) IEEE-STD-299 up to 18 GHz.		
(c) IEEE 802.nn current & proposed - ETSI EN 302 567.		
(d) Regulatory and industry approved safety standards and test procedures above 40 GHz do not exist. 40 GHz. to 1.1 THz. live network tests conducted in-house, by independent laboratories, and at customer facilities using CPE (Customer Premises Equipment).		

PLEASE READ OTHER SIDE OF THIS PAGE BEFORE INSTALLATION

APPLICATION INSTRUCTIONS - SHAKE WELL BEFORE EACH USE.

NOTE: This product can seep behind original and aftermarket clear glass and plastic screens on products with defective seals. Thoroughly inspect the outside edges of screens before spraying to avoid damage, and repair if necessary.

ELECTRICAL AND ELECTRONIC PRODUCTS

1. Turn off power and, if applicable, remove power cord. Remove batteries if your product operates in stand-by mode.
2. Product surfaces must be clean and dry before spraying.
3. Remove foam or gel headset earpiece covers, if possible, and reinstall after installation.
4. Place a cloth or paper towels around the base of large stationary products, such as tower computers and copy machines, or underneath smaller products, such as cell phones, to absorb overspray.
5. Lightly spray surface(s) and wipe off the liquid as soon as possible, but not longer than 30 minutes, using a clean soft cloth or paper towel. Continue wiping glass and plastic surfaces with a clean cloth until completely dry. Pat foam headset earpiece covers dry. Use a cotton swab to remove overspray between keypad and keyboard keys, or if inadvertently sprayed into plug and jack connection sockets. The amount of pressure applied within 30 minutes after spraying will not affect shielding effectiveness, or remove the shielding compounds.

WIRELESS ELECTRONIC PRODUCTS

1. AegisGuard™ LS can seep behind the perimeter of cell phone, tablet, and other handheld original and aftermarket protective defective screens. Inspect seals thoroughly prior to spraying to avoid damage.
2. Lightly spray the entire product, including an external antenna, if so equipped. Do not soak or saturate the surface and avoid spraying directly into plug or jack connection sockets used for connecting cables, headsets, etc.
3. A permanent screen protector installed immediately after spraying and drying cell phones, tablets, and similar devices can eliminate reapplication requirements for areas covered by the screen.

WIRED ELECTRONIC PRODUCTS

1. If your product has a removable enclosure or cabinet as some tower computers have, remove it if possible and spray the interior instead of exterior surfaces so that repeated spraying will not be required if it is washed or becomes wet.
2. Lightly spray surface(s) facing you and others. Do not soak or saturate surface(s), and avoid spraying directly into large perforated openings and plug or jack connection sockets used for connecting cables, headsets, etc.

NON-WASHABLE FABRICS AND GARMENTS

1. Although AegisGuard™ LS completely washes out with warm water and laundry detergent, it can be sprayed on other fabrics, including cotton, cotton blends and polyester used for caps, aprons, uniforms and hospital patient privacy screens. Textures may be affected and most colors will darken. Always test an inconspicuous area beforehand.
2. Lightly spray either side of the fabric and allow it to dry completely before use.

OTHER SURFACES

1. AegisGuard™ LS shielding compounds will not adhere to HDPE, LDPE, PET and PETE plastics. It is suitable for shielding windows, skylights, avionics, dashboards, and other glass, plastic, finished or unfinished wood, substrates, composites, stone, tile, metal, and most porous surfaces. Clear or tinted film professionally (recommended) installed over shielded windows and skylights eliminates reapplication requirements after cleaning. Always test surfaces prior to spraying.
2. Mask receptacles, device ports and switches with tape and use drop cloths for large spraying areas to protect from overspray.
3. Lightly sand shiny, dry, solvent-based or graphite painted surfaces before spraying.
4. Thoroughly wipe non-porous laminates, metal, windows, glass and plastic surfaces dry using soft cloths or paper towels.
5. Wait 24 hours before removing liquid residue remaining on porous surfaces after spraying to allow sufficient penetration before wiping dry for maximum shielding penetration. Sprayed surfaces should be completely dry before use, or sealing, when applicable.

Visit our web site to learn about AegisGuard™ LL, a laundry additive for all washable clothing and other fabrics, and AegisGuard™ LP, a primer and paint shielding additive for walls, ceilings and other paintable surfaces in homes and offices

30 DAY MONEY BACK GUARANTEE

Return product, or unused portion, in original package with proof of purchase to place purchased within 30 days of the sale date for a refund. Our liability shall not exceed the purchase price paid, nor shall Aegis Corporation, or its authorized resellers, be liable for any loss or damage, direct, incidental or consequential, arising from the use, misuse, or inability to use a product.

This money back guarantee is void for unsupported product applications or purposes.

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Specifications subject to change without notice

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