



**ESGARD**

## **ESGARD PL- 4.1 MIL-PRF-16173E CLASS I GRADE 4**

<b>DESCRIPTION</b>	PL-4.1 is an easily removable, transparent, non-tacky thin film preservative. It contains an effective corrosion inhibitor to protect metal surfaces while in manufacturing, storage or shipping. PL-4.1 is a listed qualified product under MIL-PRF-16173E CLASS I GRADE 4 (aka: P-19 preservatives).
<b>FIELD OF APPLICATION</b>	PL-4.1 is intended for general purpose indoor and limited outdoor preservation of corrodible metals with or without an over wrap and where handling, stacking and counting requires a tack-free coating. It is also used where there is no requirement for miscibility with lubricating oil and where ease of removal with Stoddard's solvent is important

### **TECHNICAL DATA**

FILM PROPERTIES	Transparent, non-tacky rust preventive film
TYPE	Solvent reduced corrosion preventive compound
DENSITY	7.2 lbs/gal (0.87 kg/l)
FLASH POINT	105°F (40.5°C) PMCC
VOLUME SOLIDS	43%
COVERAGE (theoretical)	345 sq ft/gal at 2 mils dry (4.5 mils wet) 8.46 sq m/l at 50 microns dry (116 microns wet)
VOC	478 gr/l (3.99 lbs/gal)
DRY TIME	To touch: 4 Hour To handle: 24 Hours

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<b>SURFACE PREPARATION</b>	All surfaces should be cleaned free of all dirt, rust, hydrocarbons and other surface contaminants.
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<b>APPLICATION</b>	PL-4.1 is supplied in ready-to-use form. Agitate well before using as some separation may occur.
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SPRAY: Use conventional or airless equipment. Tip size should be such to allow for adequate atomization and single coat application. Apply to 2.5 mils (62.5 microns) wet film thickness.

*Manufacturers of Quality Protective Coatings*  
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BRUSH: Apply coating to the item via clean, quality paint brush. Take care to apply an amount sufficient to ensure a uniform wet film thickness of 2.5 mils (62.5 microns).

ROLLER: Apply coating to the item via clean, quality roller. Take care to apply an amount sufficient to ensure a uniform wet film thickness of 2.5 mils (62.5 microns).

DIP: Maintain PL-4.2 at 60°F (15°C) or higher. Viscosity increase at lower temperatures will cause excess millage build-up during application.

FILL AND DRAIN: Fill item to be protected with coating, drain out completely, ventilate till gas free and seal.

<b>THINNING</b>	DO NOT THIN OR DILUTE. APPLY AS SUPPLIED.
<b>REMOVAL</b>	Esgard Thinner 102, mineral spirits or naphtha.
<b>CLEAN UP</b>	For equipment use, Esgard Thinner 102, mineral spirits or naphtha. For personal cleanup, use soap and water.
<b>POT LIFE</b>	Not applicable
<b>SHELF LIFE</b>	24 months
<b>CAUTION</b>	<b>FOR INDUSTRIAL USE ONLY! COMBUSTIBLE!</b> Contains petroleum distillates. Do not use or store near heat, sparks or flames. Close container after use. Good practices and common sense should be used. Safe application practices should include the use of respirators, eye protection, adequate lighting and ventilation.
<b>SAFETY</b>	Refer to Safety Data Sheet supplied with each order.
<b>FIRST AID</b>	Refer to Safety Data Sheet supplied with each order.

The data contained herein are typical product properties and do not constitute product specifications.

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