



## TECHNICAL BULLETIN

# GREENSOLV 274WL

## HIGH PERFORMANCE HOT PAINT REMOVER - AEROSPACE

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### 1) PRODUCT DESCRIPTION

**GREENSOLV 274WL** is an extremely effective biodegradable liquid paint remover for industrial and aerospace coatings. **It will not corrode metals, it is safe to be used on aluminum, steel, stainless steel, cadmium, titanium and magnesium (see aerospace specifications).** The stripping time is usually between 15 and 60 minutes for most coatings (could be longer for some aerospace coatings), when the stripping solution is kept at a temperature between 60 and 80°C (140 – 176°F).

Typical applications:

- Aerospace stripping tank;
- Industrial stripping tank;

Typical coatings:

- Catalyzed paints (epoxies, polyurethanes, integral fuel tank);
- Powder coatings (polyester & polyurethane) & E/Coat;
- Silicone polysulfide.

**GREENSOLV 274WL** is designed for use in a heated soaking tank. However, it can be used for cold stripping applications with a longer dwell time. The recommended operating temperature is 40 to 80 °C (104 to 140°F).



## 2) BENEFITS

While biodegradable and safe for the end user, **GREENSOLV 274WL** will allow you to strip the toughest coating systems within a very short period of time.

Its main benefits are:

- Extremely effective;
- Will keep its stripping power for 6 to 12 months
- Biodegradable, No HAP (*Hazardous Air Pollutant, U.S. EPA*);
- Non corrosive to any metals;
- Low evaporation rate;
- Can be cleaned and reused;
- Non flammable.

## AEROSPACE SPECIFICATIONS

Tests performed by an independant laboratory : **SMI, Florida, USA**

Hydrogen embrittlement (cadmium plated steel)	ASTM F-519
Stock Loss performed at 80°C/ 176°F for 12 hours on : <i>aluminum, magnesium, copper, nickel, titanium, steel, cobalt, corrosion resistant steel, plus various electroplated and plasma coated panels.</i>	ARP 1755B cat.7
Immersion Corrosion (aluminum, steel, titanium, magnesium)	ASTM F-483
Stress Corrosion (titanium alloys)	ASTM F-945

## 3) PHYSICAL PROPERTIES

Physical appearance.....	transparent yellow liquid
Odor.....	Ammonia
Biodegradability .....	Good
Flash point (close cup) with oil blanket.....	≥ 120°C (248°F)
Specific Gravity (Water = 1) .....	1.04
pH (1 % in water) .....	10.5 – 11.5

## 4) APPLICATION PROCEDURE

### **Before immersion:**

- Clean any excessive grim from the surface to be stripped.

### **Immersion:**

- Completely submerge the parts to be stripped in a solution of **GREENSOLV 274WL** pure at a temperature varying from 40 to 80°C (68 to 176°F) ; the higher the temperature, the lower the stripping time will be;
- Agitation of the solution during the stripping process will allow a faster reaction;
- Wait until the parts are completely stripped before taking them out of the solution;

#### Efficiency:

- Two variables will greatly influence stripping efficiency: agitation and temperature. Good agitation can reduce the stripping time by half. On the other hand, increasing the temperature by 10°C (18°F) will also reduce the stripping time by 20 to 50%.

#### Keeping a clean stripping solution:

- **GREENSOLV 274WL** will dissolve the paint into small particles that will settle in the bottom of the tank. Use a filtration system with a mesh opening between 200 and 400 microns (fabric or metal) to remove some of the paint contaminants.

#### Performance:

- **GREENSOLV 274WL's** life will depend on its use and the number of parts stripped. As a rule of thumb, the solution will be effective for a period of 6 to 12 months.
- However, loss due to drag-out is the most significant factor contributing to product loss. **With constant use, the consumption will vary from 1.0 to 2.0 kg (2.2 to 4.4 lbs) of GREENSOLV 274WL to strip 1.0kg (2.2 lbs) of paint.**

#### **Rinsing :**

- Clean and rinse the parts with water if needed (preferably with warm water); add detergent if needed.
- For metals that oxidize rapidly when in contact with moisture, dip the parts in a corrosion inhibitor or dry them rapidly.

#### **Before painting :**

- Make sure that the parts are dry and free of any contaminants before painting the surface;

#### **Compatible materials:**

- Soaking tank: any metal;
- Pump: any metal and Teflon;
- Piping: Any metal;
- Seals and tape: Teflon

#### **Precautions:**

- Avoid contact with rubber and plastic surfaces as they may degrade. In case of contact, dry as soon as possible.

#### **Disposal of the stripping solution :**

- Dispose of the stripping solution according to local regulation. The solution will be contaminated with paint components after several months of service and therefore, it should be disposed of as a hazardous material.

## **5) PERSONAL PROTECTION**

### **Engineering Controls :**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are in proximity of workstation location.

### **Safety equipment:**

- Wear appropriate respirator device with VOC (Volatile Organic Compound) cartridges when ventilation is inadequate;
- Splash goggles, safety glasses or face shield;
- Rubber apron and/or long sleeves;
- Chemical resistant gloves;
- Boots;

### **6) STORAGE**

Store **GREENSOLV 274WL** at a controlled temperature between 0°C and 30°C. (32° F to 86° F). in a closed container when not in use. Keep in a closed and dry container. The shelf life of the product has been determined to be three (3) years.

### **7) PACKAGING**

**GREENSOLV 274WL** is available in :

- Pails ( 18.9 L – 5 U.S. Gal. ).
- Drums ( 205 L – 55 U.S. Gal. ).

**Last Update :**            **February 2012**