

# Eco-Solve



**Eco-friendly, potent and highly versatile solvent replacement, which is natural, safe, non-toxic and biodegradable. With a powerful fragrance, it's the ideal replacement for hazardous solvents.**

## Description:

Eco-Safe Eco-Solve is an eco-friendly yet more effective degreaser than petroleum distillates but does not contain the hazards associated with butyl or harsh alkalies. It is biodegradable, non-toxic and considerably less harmful to humans than traditional solvents and degreasers. It has a powerful highly pleasing scent which smells clean and natural.

## Safer:

Eco-Solve is a very versatile natural product which can be used in a wide variety of applications. It is extremely safe, non-toxic, biodegradable and more effective than typical harsh caustic or acidic cleaning solutions.

## Heavy Duty Degreasing:

Eco-Safe Eco-Solve is an incredibly effective degreaser for shops, floors, work benches, tools, mechanical repairs, and machinery. It can be used to wash large equipment and trucks.

## Concrete & Floor Cleaning:

Eco-Solve is a very effective maintenance cleaner for concrete pads, parking complexes, and airport runways. The oils and greases that drip from cars can be lifted off concrete and floors. Eco-Solve 100 is put on the oil spots, which lifts the oil from the surface, and can be absorbed with a solid media such as kitty litter or oil absorptive pads. When using a water dilutable form of Eco-Solve use the traditional mop and-bucket method. It can also be used in small floor scrubbers for removing oil and fork lift tire marks, and in larger units for taking up tire marks on runways. Eco-Solve cleans graffiti (including effectively replacing xylene in graffiti removers) off concrete because of its ability to remove paint. Strong enamels and epoxy paints will not usually be removed. Eco-Solve can be used to remove tar from cement bridges.

## Spot & Stain Removal:

Eco-Solve 70 to Eco-Solve 95 can effectively remove ink, oil, grease, paint, tar, bubble gum, and asphalt. It is excellent at cleaning and removing ink from rollers and presses.

## Adhesive Removal:

Eco-Solve is an excellent product for the removal of adhesives from various substrates. Most contact adhesives will dissolve very quickly;

fortunately, it has almost no effect on epoxies which have already cured.

## Parts Washers & Dip Baths:

In parts washers in most truck and automobile maintenance and repair facilities Eco-Solve 100 can be used as a replacement for petroleum derived products. Aside from the health benefits to the workers from working with a much less toxic solvent, Eco-Solve can be a more effective cleaner. Eco-Solve 15 to 95 works well in closed automatic parts wash machines.

## Penetrating Oil:

Eco-Solve can be used as a spray on product to loosen bolts and it has the ability to wick into tight joints and dissolve hardened greases and oils to assist in the removal of bound nuts and bolts.

## Release Agent:

Eco-Solve can be used at various levels for a release agent that is sprayed on the beds of tar and asphalt trucks before picking up their loads to facilitate easy unloading. It's an excellent replacement for diesel fuels commonly used in this application that are less suited to be dumped on the ground. Eco-Solve 100 will not readily freeze (-90°C freezing point) and is great for underground storage through frozen over winters.

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by SAFE WASTE SOLUTIONS (Pty) Ltd.



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## Marine Vessels & Ships:

Eco-Solve applications include degreasing diesel engines and bearings, removal of heavy carbon deposits, cleaning of slop hoses, cleaning and recycling of oil filters for extended life, and general-duty ship maintenance. Eco-Solve 100 should not interfere with oil and water separator sensor systems and is effective in oil water separators on large shipping vessels since Eco-Solve 100 and water separate so quickly. Additionally, it has many environmental advantages compared to other solvent-based systems. Eco-Solve 20 can be employed undiluted in 24-hour dips to remove heavy carbon deposits on engine parts and valves. The cleaner can be reused for a number of applications. Various dilutions of Eco-Solve 20 can perform various other useful jobs:

1:10 dilution to clean oily water separator filters

1:20 dilution for slop hoses (to adequately clean slop hose so it can be reused)

1:50 dilution for general purpose cleaning around the ship

## Cleaner for Printing Inks:

Eco-Solve is excellent at cleaning and removing ink from rollers and presses, but sometimes may not be cost effective against harmful straight cheap solvent systems, rather where eco-friendliness is desired over cost. If used properly

and in the right formulation it can be more effective and approach economic equality with less expensive systems. For most oil and solvent based inks, Eco-Solve 100 is recommended as it will clean the ink from the rollers faster and with less solvent use than with a petroleum product. Drying time and the interval between cleaning and running are similar. Some inks, especially the water and soy-based types can easily be cleaned with Eco-Solve 20.

## Tar & Asphalt Grading:

Eco-Solve is excellent is great for use in tar and asphalt grading. When tar and asphalt is being laid, every so many kilograms must tested to insure that the proper mix of aggregate sizes and oils are being used. Eco-Solve is very effective in the asphalt extraction methodology.

## Solvent Replacement:

Eco-Solve can replace a wide variety of products, including mineral spirits, methyl ethyl ketone, acetone, toluene, glycol ethers, and of course fluorinated and chlorinated organic solvents. As with most organic solvents, Eco-Solve 100 is not water soluble, so it can be used in the typical water separation units. Eco-Solve 40 is specially formulated to be completely water and oil soluble. It's formulated to be readily water soluble and it's ideal for high pressure spray systems.

With a KB value of 67, Eco-Solve has solubility properties close to that of CFC's, indicating that it is a much better solvent than a typical mineral spirit. It is a direct substitute for most other organic solvents.

## Solvent Carrier:

Most paint and adhesive formulations use some sort of carrier solvent to disperse the product over the intended area. In many cases Eco-Solve 100 can be used as the carrier instead of mineral spirits or other petroleum-based compounds, often with a resulting reduction in the volume of solvent used use. The drying times are generally not affected.

## Packaging, Shelf Life, Storage:

Stable for 12 months at ambient temperature, out of direct sunlight. Available in 5L, 25L & 1000L flow bins. Super concentrate available for simple self-manufacturing.

Shake or stir Eco-Solve 50 to Eco-Solve 95 well before use.

**The Eco-Solve range of products pack a serious punch. See the following page for the full range of Eco-Solve products, from Eco-Solve 2 right up to Eco-Solve 100, and their incredible uses and applications:**

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## Eco-Solve 2:

### RTU Spray & Wipe Cleaner:

- Ideal all-purpose cleaner
- Safe for hard surfaces as well as fabrics, carpets and upholstery
- Orange scent freshens the air as you clean
- Suitable for light to moderate strength cleaning applications
- Lightly dilutable

## Eco-Solve 5:

### Concentrated Cleaner:

- All-purpose concentrated cleaner
- Safe for hard surfaces as well as fabrics, carpets and upholstery
- Suitable for medium to high strength cleaning applications
- Moderately dilutable

## Eco-Solve 10:

### Super Concentrated Cleaner:

- All-purpose super concentrated cleaner
- Safe for hard surfaces as well as fabrics, carpets and upholstery
- Safe alternative to petroleum distillates and chlorinated solvents
- Penetrates even the heaviest grease accumulations
- Designed for heavy to medium-duty degreasing on machinery and equipment
- Suitable for high strength cleaning applications
- Highly dilutable

## Eco-Solve 15:

### Parts Washer:

- Industrial-strength parts washer
- Quickly penetrates grease, oil and tar deposits
- Ideal for use in recirculating parts washers up to 74 degrees Celsius

## Eco-Solve 20:

### Water Rinseable Degreaser:

- Removes grease, oil and tar from motors, chassis, tools and parts
- Water rinseable, works quickly without causing corrosion

## Eco-Solve 40:

### Drain & Grease Trap Cleaner:

- Excellent alternative to hazardous acid or caustic drain cleaners
- Will not disrupt bacterial action
- After cleaning grease trap maintain with Eco-Safe Fat Trap Gobbler™ bio enzyme treatment, on an automated after-hours dosing system with Eco-Safe Advanced Dosing Unit
- Highest strength Eco-Solve cleaner which is still completely water soluble

## Eco-Solve 70:

### Tar Remover:

- Effectively removes tough soils including tar, pitch asphalt and roofing compounds

## Eco-Solve 95:

### Emulsifiable Solvent:

- All natural, biodegradable formula uses no petroleum distillates
- Effectively strips away the heaviest grease, grime, wax, oils, adhesives, tar and asphalt, gums and more
- Leaves behind a fresh orange scent as it cleans

## Eco-Solve 100:

### Lift Station Degreaser:

- Floats on the surface to eliminate strong odours
- Dissolves heavy grease and fat accumulations on lift station walls
- Will not harm bacterial action in sewage treatment plants

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