

# Technical Data Sheet

## EnaSolv ES Cleaning Agent

### Product Description

**Enasolv ES** is a formulated cleaning agent with a high solvency, which is for safe, no flash point and low environmental impact cleaning application. It is designed to remove a wide variety of soils in immersion, spray and vapor cleaning process.

**Enasolv ES** intend as a drop-in replacement for any chloride solvent, HCFC-141B, HCFC225, and HFC/HFE solvents.

**Enasolv ES** is effective for precision cleaning applications to remove contaminants as particles, oils, greases, adhesives, resins, pitch and waxes from metal substrates, optical parts, also suitable for the removal of solder flux, paste, and ionic residues from circuit assemblies.

**Enasolv ES** is safe for use with ferrous and non-ferrous alloys such as aluminum, copper and copper alloys, magnesium, nickel, steel, stainless steel, titanium and zinc. It is also compatible with most polymeric substrates and elastomers.

### Features and Benefits

- ✓ No flash point
- ✓ High performing
- ✓ Enhanced permeability
- ✓ Can be reusable
- ✓ RoHS compliant
- ✓ Almost zero Ozone Depleting Potential
- ✓ Very low Global Warming Potential

### Typical Applications

- Precision Cleaning
- Vapor Degreasing
- Immersion Cleaning
- Spray Cleaning

### Soils Removed

- |                      |                     |
|----------------------|---------------------|
| • Adhesives          | • Greases           |
| • Buffing Compounds  | • Hydraulic Oils    |
| • Drawing Oils       | • Lapping Compounds |
| • Fluxes & Pastes    | • Resins and Inks   |
| • Fluorinated Fluids | • Silicone Oils     |

## Properties

Appearance	Clear liquid with characteristic odor
Flash Point	None
Boiling Range, typical	66°C
Surface Tension	25 dynes/cm
Specific Gravity	1.25
Viscosity	0.50 cps
Vapor Pressure	>100 mmHg
Flammability Limits (vol %, main component)	3.5 – 9.5 %
Solubility of Water	Slight
Solubility in other solvents	Miscible with most organic solvents
Evaporation Rate	completely

\*Data under temperature 25°C

## Shelf Life

The shelf life for this product is twenty-four (24) months when it is stored in its original, sealed container at room temperature.

## Environmental/Regulatory

Ozone Depletion Potential (ODP)	0.013-0.018
Global Warming Potential (GWP)	0.31
Volatile Organic Compounds (VOC)	1250 g/l

## Disposal/Safety

**Disposal:** Recommend contacting your current or local environmental service company for disposal of this product.

**Safety:** Please see Material Safety Data Sheet for further information.

**Packaging:** Enasolv ES is available in 25 kg pails and 250 kg drums.



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