



## Technical Data Sheet

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### MEGASOLV™\* NOC Cleaner

#### DESCRIPTION

MEGASOLV NOC Cleaner offers a new and effective alternative to both alkaline aqueous cleaning and halogenated solvents. The product has exceptional process advantages for room temperature cleaning of electronic assemblies and materials. MEGASOLV NOC is a homogeneous, water soluble, thermodynamically stable solvent blend with outstanding solubility and low surface tension. MEGASOLV NOC contains both polar and nonpolar components and therefore exhibits outstanding solubility for a wide range of soils, including oils, fluxes, and salts.

#### CLEANING APPLICATIONS

MEGASOLV NOC can be used for multiple cleaning applications. Originally, MEGASOLV NOC was developed for cleaning water-soluble pastes (misprints and stencils), no-clean pastes (misprints and stencils), no-clean reflowed fluxes, and SMD adhesives (epoxy adhesives). MEGASOLV NOC has been successfully incorporated for these applications as well as for photoresist removal from wafers and screens. Rinsing agents such as water or IPA are recommended.

**Note:** Adhesive cleaning applications are considered closed loop, that is, the solvent can be easily recovered by means of filtration (10µm). The only solid waste created (sludge) would be the spent filter materials.

#### PROCESS APPLICATIONS

##### **Pressure spray:**

When used in equipment designed to safely spray solvents, this is the most effective process method. Physical force acting on the material surface, coupled with the chemical action of the solvent will optimize the cleaning process by reducing cycle times and energy consumption. Room temperature cleaning is recommended.

##### **Immersion cleaning:**

This method, although less effective, can be incorporated as well. For certain applications, heating the solvent to 120°F may be necessary in order to reduce cycle times.

##### **Ultrasonic cleaning:**

Given the characteristic properties of MEGASOLV NOC, vapor pressure, boiling point, and viscosity, the use of ultrasonic cleaning is very efficient for most applications.

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\* MEGASOLV is a trademark of Austin American Technology Corporation

**Note:** Hand wiping/cleaning is not recommended with MEGASOLV NOC unless in conjunction with a water or alcohol rinse because of the low evaporation rate of the solvent.

### **MATERIALS COMPATIBILITY**

MEGASOLV NOC presents excellent material compatibility with most epoxies, solder masks, metals, and plastics used in electronic assemblies. MEGASOLV NOC can be characterized as an aggressive agent for surface contamination removal, yet a chemically mild solvent compatible with most electronic assembly materials. Compatibility testing of materials is recommended, particularly for gaskets and o-rings used in cleaning equipment.

### **ENVIRONMENTAL IMPACT**

MEGASOLV NOC does not fall under the hazardous material characteristics established by the EPA and the DOT. MEGASOLV NOC is readily biodegradable, has a moderate level of ecological toxicity and a low level of environmental persistence. For cleaning applications involving solder paste, tests have shown an average dissolved lead concentration of 0.4 mg/L, which is well below the 5 mg/L limit established by the EPA for hazardous waste characterization.

### **PHYSICAL PROPERTIES**

Boiling Point	356-396°F (180°C-202°C)
Flash Point (PMCC)	180°F (82°C)
Solubility in water	100%
Specific Gravity @ 25°C	0.97
Stability	Stable
Vapor Specific Gravity	4.05 (Air =1 at 60-90°F or 15.6°C-32°C)
Vapor Pressure @ 20°C	<1 mm Hg

These properties are highly desirable for a cleaning agent used in a manufacturing environment. The low vapor pressure results in very low levels of evaporation, which minimizes worker exposure (inhalation) as well as chemical usage.

### **DISPOSAL**

Petroferm recommends contacting your current or local environmental service company for disposal of MEGASOLV NOC concentrate via fuel blending. This method has proven to be the easiest, most cost effective way to dispose of waste Petroferm cleaning agents.

### **PACKAGING**

MEGASOLV NOC is available in 1-gallon pails, 5-gallon pails and 55-gallon drums. Samples are available in one-quart and one-gallon containers.

**STORAGE**

MEGASOLV NOC should be stored in the original container, preferably in a cool, ventilated, fire-resistant building.

**SHELF LIFE**

The shelf life for this product is indefinite when it is stored in its original, sealed container at room temperature. However, the product should be inspected after the designated date on the product label (twenty-four months from the date of manufacture) prior to customer use.

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**Petroferm Inc.**  
**3938 Porett Drive Gurnee, Illinois 60031 USA**  
**Telephone: 847-244-3410 • Facsimile: 847-249-6346**



[www.petroferm.com](http://www.petroferm.com)  
[techservice@petroferm.com](mailto:techservice@petroferm.com)

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