STEPOSOL® MET-10U provides superior cleaning performance while also having an improved environmental profile due to a low vapor pressure, high boiling point, high flash point, and Biorenewable Carbon Index (BCI) of 75% compared to other solvents.

**STEPOSOL® MET-10 U IS A NON-REPORTABLE VOC**

**United States**
State:
According to California Air Resources Board (CARB) Regulation for Reducing Emissions from Consumer Products, STEPOSOL® MET-10U is a low vapor pressure VOC (LVP-VOC). It contains at least one carbon atom, has a vapor pressure below 0.1 mmHg at 20 °C, and a boiling point above 216 °C. Therefore, STEPOSOL® MET-10U is exempt and the VOC limits do not apply. The reportable VOC is zero!

STEPOSOL® MET-10U LVP-VOC exemption also applies to those states in the Northeast and Mid-Atlantic regions under the Ozone Transport Commission Model Rule for Consumer Products.

Federal:
STEPOSOL® MET-10U is exempt from VOC limit requirements since the U.S. EPA’s Clean Air Act VOC Standards exempt LVP-VOC from VOC limit requirements.

Europe
STEPOSOL® MET-10U does not meet the VOC definition since it is an organic compound and does not have a vapor pressure above 0.01 kPa at 293.15 K or has a corresponding volatility under the particular conditions of use (EC Directive 1999/13/EC).

Canada
STEPOSOL® MET-10U does not meet the VOC definition for consumer products since it has a vapor pressure below 0.1 mmHg at 20 °C (Environment Canada Guidelines for VOCs in Consumer Products).

Australia
STEPOSOL® MET-10U does not meet the VOC definition since it is a chemical compound that has a vapor pressure below 0.01 kPa at 20 °C (National Pollutant Inventory, NPI definition of Volatile Organic Compounds).

*Based on the U.S., European, Canadian, and Australian regulations noted above.*
REDUCE CHEMICAL LEVEL WITH STEPOSOL® MET-10U

STEPOSOL® MET-10U has been shown to replace up to 95% by weight of hazardous solvents without compromising cleaning performance. When less harmful solvents are emitted into the atmosphere, this can help reduce negative effects.

STEPOSOL® MET-10U also provides improved performance with up to 200% increase in cleaning efficiency compared to d-limonene, NMP and glycol ethers in various applications at equal weight.

Please refer to the STEPOSOL® MET-10U Household Cleaning, Adhesive Removal/Cleaning, Paint & Coatings Removal/Stripping, and Metal Cleaning Application Guides for formulation and performance details at www.stepan.com/STEPOSOLMET.

STEPOSOL® MET-10U IS DERIVED FROM A NATURAL, RENEWABLE SOURCE

STEPAN DEFINITION OF NATURALLY-DERIVED: A product derived from biorenewable resource originating from animal, plant or marine feedstock. All Stepan surfactants labeled as naturally-derived have a minimum of 50% Biorenewable Carbon Index (BCI).

The oleo-based methyl ester backbone of STEPOSOL® MET-10U is currently derived from palm kernel oil and can be derived from canola oil or soybean oil as well.

STEPOSOL® MET-10U HAS A BIORENEWABLE CARBON INDEX OF 75%

The BCI is a value based on the percent carbon derived from a biorenewable resource. BCI is calculated by taking the number of biorenewable carbons divided by the total number of carbons in the idealized molecule, multiplied by 100. For STEPOSOL® MET-10U, 75% of the carbons are derived from a biorenewable source.

STEPOSOL® MET-10U IS A READILY BIODEGRADABLE SURFACTANT

DEFINITION OF READILY BIODEGRADABLE: According to OECD 301 Test Guidelines for ready biodegradation, a material is considered readily biodegradable if 60% (or 70% depending on the method) of the organic carbon in the material is converted to CO₂ and water in 28 days, within a 10-day window.

The 10-day window begins when 10% of the organic carbon has been converted to CO₂.

STEPOSOL® MET-10U has been tested in accordance with OECD 301B, the CO₂ evolution test. The product achieved 61.14% CO₂ evolution within the 10-day window and 63.93% biodegradation on day 28 of the test. STEPOSOL® MET-10U is classified as readily biodegradable.

STEPOSOL® MET-10U IS NON-FLAMMABLE

DEFINITION OF FLAMMABLE LIQUID: In accordance with the U.S. Department of Labor Occupational Safety & Health Administration (OSHA), a flammable liquid has a flashpoint at or below 93 °C (199 °F).

Since the flashpoint of STEPOSOL® MET-10U is 134 °C (273.2 °F) using Pensky-Martens Closed Cup, it is not flammable.