



### STEPOSOL<sup>®</sup> ROE-W

Product Name

Chemical Description

CAS Registry No.

Chemical Name

Applications

Typical Properties

Biodegradability

Toxicity

STEPOSOL ROE-W is a methyl ester derived from canola oil.

67762-38-3

Canola oil, methyl ester

STEPOSOL ROE-W is a naturally-derived, biodegradable solvent that can be used in a variety of household, industrial & institutional applications. STEPOSOL ROE-W can be used as an industrial solvent or co-solvent, crop oil or carrier oil in agricultural applications. It can be used a replacement or co-solvent for a variety of common industrial solvents. STEPOSOL ROE-W can be used in applications where a lower cloud point is desired.

Appearance at 25°C.....	Clear liquid
Viscosity at 25°C, cps .....	10
Density at 25°C, g/ml (lbs/U.S. gal).....	0.88 (7.3)
Actives, % .....	>99
Color, Gardner .....	5 max.
Color, APHA.....	239
Saponification Value .....	190
Acid Value.....	1.0 max.
Iodine Value .....	113
Cloud Point, °C (°F) .....	-2.3 (27.9)
Pour Point, °C (°F) .....	-13.8 (7.2)
Freeze Point, °C (°F).....	-24.5 (-12.1)
Melting Point, °C (°F) .....	-10.9 (12.5)
Boiling Point, °C (°F).....	330 (626)
Flash Point, PMCC, °C (°F) .....	>94 (>201)
Refractive Index at 20°C .....	1.456
Surface Tension (as is), dynes/cm.....	31.4
Kauri-Butanol Value .....	55
VOC, CARB Method 310, % .....	0.6
VOC, CARB Attachment B, % .....	0.8
Solubility	
Water .....	Insoluble
Methanol.....	Soluble
Kerosene .....	Soluble
Xylene.....	Soluble

This product is biodegradable. Additional information is available upon request.

STEPOSOL ROE-W has a low toxicity (oral LD<sub>50</sub> >5000 mg/kg) and is not a skin and eye irritant.

STEPOSOL<sup>®</sup> is a registered trademark of Stepan Company.



## Storage & Handling

Normal safety precautions (i.e. gloves and safety goggles) should be employed when handling STEPOSOL ROE-W. Contact with eyes and prolonged contact with skin should be avoided. Wash thoroughly after handling materials. Product temperatures over 130°F (54°C) are not recommended.

Being derived from canola oil, STEPOSOL ROE-W contains polyunsaturated fatty acid methyl esters that can spontaneously combust. Oily rags, presenting a large surface area for air contact, should be washed out or stored where there can be no fire hazard.

Standard Packaging: STEPOSOL ROE-W is available in drum (net weight 375 lb/170 kg), tote or bulk quantities.

Recommended Drum Storage: STEPOSOL ROE-W should be stored in sealed containers at a temperature of 50-110°F. Storage under nitrogen will prevent degradation of the product over time.

Recommended Bulk Storage: STEPOSOL ROE-W can be stored in vessels of carbon steel; however 316 or 304 stainless steel is preferred. Tanks should be closed with venting through a gooseneck vent. STEPOSOL ROE-W should be stored between 50-110°F. External steam panel coils can be used if heating is required. Rubber hoses are not recommended for extended use. Storage under nitrogen will prevent degradation of the product over time.

## Clearances

STEPOSOL ROE-W is approved for use under EPA 40 CFR 180.910, pre- and post-harvest applications.

All components of STEPOSOL ROE-W are listed in the following countries: United States (TSCA 67762-38-3), Europe (EINECS 267- 015-4), Canada (DSL 67762-38-3), Korea (ECL Serial No. KE-14358), China (IECSC 67762-38-3), Japan (ENCS Number 7-670), Philippines (PICCS 67762-38-3), and Australia (AICS 67762-38-3).

Per the California Air Resources Board's (CARB) Consumer Product Rule, OTC Model Rule and Federal VOC Standards, STEPOSOL ROE-W is exempt from VOC limit requirements because it is a LVP-VOC (low vapor pressure VOC). All regulations define an LVP-VOC as a compound or mixture which meets one of the following criteria: 1) The compound has a vapor pressure of less than 0.1 mm Hg at 20°C; 2) the compound has more than 12 carbon atoms, or a mixture comprised solely of compounds with more than 12 carbon atoms, and the vapor pressure is unknown or 3) the compound has a boiling point greater than 216°C.

## Additional Safety Information

A Material Safety Data Sheet is available upon request.

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