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| Product Name | STEPOSOL[®] ME |
| Chemical Description | STEPOSOL ME is a methyl ester derived from soybean oil. |
| General Information | STEPOSOL ME is primarily a methyl oleate/linoleate methyl ester. |
| Applications | STEPOSOL ME can be used as either a solvent or cosolvent, crop oil or carrier oil in agricultural applications. |
| CAS Registry No. | 67784-80-9 |
| Typical Composition | C16 (Methyl Palmitate), %.....11 C18:0 (Methyl Stearate), %.....4 C18:1 (Methyl Oleate), %.....21 C18:2 (Methyl Linoleate), %.....56 C18:3 (Methyl Linolenate), %.....8 |
| Typical Properties | Appearance at 25°C..... Clear Yellow Liquid Density at 25°C, g/ml (lbs/US gal)..... 0.88 (7.3) Moisture, %..... 0.1 max. Viscosity at 25°C, cps..... 12 Flash Point, PMCC, °C (°F)..... >94 (>201) Saponification Value.....192 Acid Number..... 0.5 max. Iodine Number.....135 Pour Point, °C (°F)..... -5 (23) Boiling Point, °C (°F)..... >260 (>500) Color, Gardner..... 2 RVOC, U.S. EPA, %..... 0 Solubility Water..... Insoluble Methanol Soluble Kerosene Soluble Xylene Soluble |
| Other Data | DOT Classification..... Non-Regulated |
| Biodegradability | Product is biodegradable. Additional information is available upon request. |
| Toxicity | STEPOSOL ME is relatively harmless orally (LD ₅₀ >17.4 g/kg). Undiluted product is mildly irritating to skin and eyes. |

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Storage & Handling

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

Being derived from soybean oil, STEPOSOL ME contains polyunsaturated fatty acid methyl ester 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.

Storage Information: STEPOSOL ME can be stored in vessels of carbon steel, but 316 or 304 stainless steel is preferred. Tanks should be closed with venting through a gooseneck vent. The methyl ester should be stored between 50-110°F (10-43°C). External steam panel coils can be used if heating is required. Pumps, pipes, and transfer lines can be carbon steel, but 316 or 304 stainless steel is preferred. Rubber hoses are not recommended for extended use as methyl esters attack rubber. Drums should be stored in sealed containers at a temperature of 50-110°F (10-43°C). Storage under nitrogen will prevent an increase in moisture in the product over time.

Standard Packaging: STEPOSOL ME is available in bulk quantities.

Clearances

All components of STEPOSOL ME are listed in the following countries; the registration numbers for the active ingredient is included in parentheses: Europe (EINECS 267-055-2), Canada (DSL 67784-80-9), Korea (ECL Series No. KE-31749), and Australia (AICS 67784-80-9).

STEPOSOL ME is approved for use as an inert ingredient under U.S. EPA 40 CFR 180.910.

Additional Safety Information

A Material Safety Data Sheet is available upon request.

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