

Product
Name

STEPOSOL[®] SC

Chemical
Description

STEPOSOL SC is a blend of soy and corn esters.

CAS
Registry No.

67784-80-9, 97-64-3

Chemical
Name

Soy methyl ester and Ethyl lactate

INCI Name

Methyl soyate and Ethyl lactate

Applications

Functional Properties

- Used as a solvent replacement
- Excellent solvency

End Product Uses

- | | |
|--------------------------|------------------------|
| • Varnish Remover | • Grease Trap Cleaner |
| • Graffiti Remover | • Brake Cleaner |
| • Waterless Hand Cleaner | • Carbon Remover |
| • Concrete Cleaner | • Parts Washer Solvent |
| • Printing Ink Cleaner | • Adhesive Remover |

Typical
Properties

| | |
|---|--------------|
| Appearance at 25°C..... | Clear liquid |
| Viscosity at 25°C, cps..... | 10 |
| Density at 25°C, g/ml (lbs/U.S. gal)..... | 0.95 (7.9) |
| Color, Gardner..... | 1 |
| Color, APHA..... | 225 |
| Cloud Point, °C (°F)..... | -2.7 (27.2) |
| Pour Point, °C (°F)..... | -6.0 (21.2) |
| Freeze Point, °C (°F)..... | -15.1 (4.8) |
| Melting Point, °C (°F)..... | -4.7 (23.6) |
| Boiling Point, °C (°F)..... | 163 (325) |
| Flash Point, PMCC, °C (°F)..... | 69 (156) |
| Refractive Index at 20°C..... | 1.435 |
| Surface Tension (as is), dynes/cm..... | 30.1 |
| Kauri-Butanol Value..... | 318 |
| Vapor Pressure at 25°C, mm Hg..... | 0.19 |
| Evaporation Rate (Butyl Acetate = 1)..... | 0.17 |
| VOC, CARB Method 310, %..... | 50.0 |
| VOC, U.S. EPA Method 24, %..... | 53 |



Solubility

| | |
|--|-----------|
| Water | Insoluble |
| Methanol..... | Soluble |
| Kerosene | Soluble |
| Xylene..... | Soluble |
| Isopropanol, Toluene, propylene carbonate, dibasic esters, | Soluble |
| d-Limonene, acetone, N-methyl-2-pyrrolidinone | |

Biodegradability

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

Toxicity

The available safety information shows STEPOSOL SC to be slightly to practically non-toxic orally (oral LD₅₀ = 2500 to 5000 mg/kg). Product may cause skin/eye irritation.

Storage & Handling

Normal safety precautions (i.e. gloves and safety goggles) should be employed when handling STEPOSOL SC. Contact with eyes and prolonged contact with skin should be avoided. Wash thoroughly after handling this material.

Rags soaked with any solvent can present a fire hazard and should be stored in UL listed or Factory Mutual-approved covered containers. Improperly stored rags, under certain conditions can lead to spontaneous combustion.

Standard Packaging: STEPOSOL SC is available in drums (400 lb/181 kg) and in bulk quantities.

Recommended Drum Storage: STEPOSOL SC should be stored in sealed containers at a temperature between 50-122°F (10-50°C). Product temperatures over 130°F (54°C) are not recommended.

Recommended Bulk Storage: STEPOSOL SC 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. Pumps, pipes, and transfer lines can be carbon steel, but 316 or 304 stainless is preferred. Rubber hoses are not recommended for extended use. Material should be stored between 50-122°F (10-50°C). Product temperatures over 130°F (54°C) are not recommended.

Clearances

All components of STEPOSOL SC are listed in the following countries: United States (TSCA 67784-80-9 and 97-64-3), Australia (AICS 67784-80-9 and 97-64-3), Canada (DSL 67784-80-9 and 97-64-3), Europe (EINECS 267-055-2 and 202-598-0), China (IECSC 67784-80-9 and 97-64-3), Korea (ECL Serial No. KE-31749 and KE-20855), Japan (ENCS 7-670 and 2-1371), New Zealand (NZIoC 67784-80-9 and 97-64-3), and Philippines (PICCS 67762-38-3 and 97-64-3).

Additional Safety Information

This product is covered by one or more U.S. patents.
A Material Safety Data Sheet is available upon request.

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