

STEPOSOL[®] SB-W

Product Name

Chemical Description

CAS Registry No.

Chemical Name

INCI Name

Applications

STEPOSOL[®] SB-W is a methyl ester derived from soybean oil.

67784-80-9

Soybean oil, methyl ester

Methyl soyate

Functional Properties

- Contains no petroleum ingredients
- Superior lubricating agent
- Replacement for many solvents such as naphtha and mineral spirits

End Product Uses

- Waterless Hand Cleaner
- Adhesive Remover
- Floor Scrubber
- Mold Release
- Lacquer Thinners
- Form Release Agent
- Hood/Grill Oven Cleaner
- Ink Remover

Typical Properties

| | |
|--|--------------|
| Appearance at 25°C..... | Clear liquid |
| Viscosity at 25°C, cps | 7 |
| Density at 25°C, g/ml (lbs/U.S. gal)..... | 0.88 (7.3) |
| Color, Gardner | 4 max. |
| Color, APHA..... | 320 |
| Cloud Point, °C (°F) | 1.1 (30.0) |
| Pour Point, °C (°F) | -1.6 (29.1) |
| Freeze Point, °C (°F)..... | -5.7 (21.7) |
| Melting Point, °C (°F) | 0.1 (32.1) |
| Boiling Point, °C (°F)..... | 352 (665) |
| Flash Point, PMCC, °C (°F) | >94 (>201) |
| Refractive Index at 20°C | 1.457 |
| Surface Tension (as is), dynes/cm..... | 31.5 |
| Kauri-Butanol Value | 38 |
| Vapor Pressure at 20°C, mm Hg..... | 3.12 |
| Evaporation Rate (Butyl Acetate = 1) | 0.32 |
| VOC, CARB Method 310, % | 0.5 |
| VOC, U.S. EPA Method 24, % | 5 |
| Solubility | |
| Water | Insoluble |
| Methanol..... | Soluble |
| Kerosene | Soluble |
| Xylene..... | Soluble |

Biodegradability

Product is biodegradable. Additional information is available upon request.

Toxicity

STEPOSOL SB-W is practically nontoxic (LD₅₀>5 g/kg). Undiluted product is mildly irritating to skin and eyes.

STEPOSOL[®] is a registered trademark of Stepan Company.



Storage & Handling

Normal safety precautions (i.e. gloves and safety goggles) should be employed when handling STEPOSOL SB-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 soybean oil, STEPOSOL SB-W 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.

Standard Packaging: Available in 374 lb (170 kg) steel closed head unlined drums or bulk.

Recommended Drum Storage: Drums should be stored sealed at temperatures of 50-110°F (10-43°C).

Bulk Storage Information: STEPOSOL SB-W 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. STEPOSOL SB-W 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 is preferred. Rubber hoses are not recommended for extended use as STEPOSOL SB-W may degrade rubber.

Clearances

All components of STEPOSOL SB-W are listed in the following countries; the registration number for the active ingredient is included in parentheses: United States (TSCA 67784-80-9), Europe (EINECS No. 267-055-2), Canada (DSL 67784-80-9), Korea (ECL Serial No. KE-31749), China (IECSC 67784-80-9) and Australia (AICS 67784-80-9).

Per the California Air Resources Board's (CARB) Consumer Product Rule, OTC Model Rule and Federal VOC Standards, STEPOSOL SB-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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