

Cargill Vikoflex[®] 7170 epoxidized soybean oil

Product Description

Vikoflex[®] 7170 epoxidized soybean oil provides excellent plasticization efficiency and co-stabilization of PVC flexible and semi-rigid compounds, as well as other thermoplastics, rubbers and elastomers. It acts as an effective acid and mercaptan scavenger. It is used as a viscosity modifier and reactive diluent in various polymers including epoxy, polyurethane, UV curing resins, acrylic and PVA emulsions, and solvent-borne alkyds and polyesters. Vikoflex[®] 7170 product is FDA approved for certain food contact applications, subject to limitations. Contact us for further information.

Applications

- Plasticization of PVC flexible and semi-rigid compounds
- Heat and light stabilization of flexible, semi-rigid, and rigid PVC compounds
- Grinding liquid for pigment dispersions
- Acid acceptance in chlorinated hydrocarbons, phosphoric acid esters, and natural resins
- Plasticization of PVC and PVA emulsions
- Plasticization of chlorinated rubber, nitrocellulose, and neoprene
- Acid scavenging in soy-based ink compounds, lubricating oils and cutting oils
- Chemical intermediate for polyols and polyester

Typical Properties

CHEMICAL & PHYSICAL ANALYSIS ¹	TYPICAL VALUE
% Oxirane Content	>6.8
Viscosity at 25°C [cps]	320 - 500
Specific Gravity	0.99
APHA Color	<150
Moisture Content (%)	<0.1
Acid Value (mg KOH/g)	<0.5
Iodine Value	<3.0
Bio-based Carbon Content (ASTM D6866-22)	100%

¹Note: The specification for quality is final at loading. Cargill reserves the right to use internal analytical methods that follow the international reference methods.

Packaging, Storage, and Handling

Vikoflex® 7170 epoxidized soybean oil is available in 55-gallon (450 lb. net) drums, 2,200 lb. totes, 45,000 lb. bulk tank trucks and 186,000 lb. bulk tank cars. Upon request, it can also be supplied in IsoTanks. Reference the Safety Data Sheet for appropriate storage conditions.

Shelf Life

The recommended shelf life of this product is 36 months. It is counted from the date of manufacture, which can be identified in the shipping documentation.

Environmental and Safety

For more information on its environmental and regulatory status, please request our Safety Data Sheet.

Additional Information

Solvents

Miscible

- Aromatic Hydrocarbons
- Butanol
- Esters
- Ketones
- Plasticizers

Partly Miscible

- Aliphatic Hydrocarbons
- Ethanol

Immiscible

- Water

Compatibility

Compatible with

- Polyvinyl Chloride
- Chlorinated Rubber
- Ethyl Cellulose
- Nitrocellulose
- Polyvinyl Acetate

Partially compatible with

- Alkyds

Incompatible with

- Cellulose Acetate
- Cellulose Acetate Propionate
- Polyvinyl Butyral

If you have further questions do not hesitate to **reach out to your local representative.**

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