Cargill Vikoflex® High IV epoxidized soybean oil

Product Description

Vikoflex® High IV 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® High IV product is FDA approved for certain food contact applications, subject to limitations.

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 polyesters

Typical Properties

CHEMICAL & PHYSICAL ANALYSIS	TYPICAL VALUE	UNIT OF MEASURE
Oxirane content	≥6.2	%
Viscosity @ 25°C	2.6 – 3.8	stokes
Specific Gravity	0.99	-
APHA Color	<=175	-
Moisture Content	<=0.1	%
Iodine Value	6.0 – 14.0	mg KOH/g
Acid Value	<=1.0	mg KOH/g

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Minneapolis

Mexico
Ciudad de México

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Packaging, Storage and Handling

Vikoflex® High IV epoxidized soybean oil is available in 55-gallon (450 lb. net) drums and 45,000 lb. bulk tank trucks. Reference the Safety Data Sheet for appropriate storage conditions.

Shelf Life

Please contact us for details.

Environmental and Safety

Before use, please refer to the product's safety data sheet for safety and handling information.

Additional Information

Solubility

Vikoflex® High IV epoxidized soybean oil is miscible with: aromatic hydrocarbons, butanol, esters, ketones, and plasticizers.

Vikoflex® High IV epoxidized soybean oil is partially miscible with aliphatic hydrocarbons and ethanol.

Vikoflex® High IV epoxidized soybean oil is immiscible with water.

Compatibility

Vikoflex® High IV epoxidized soybean oil is compatible with: polyvinyl chloride, chlorinated rubber, ethyl cellulose, nitrocellulose, and polyvinyl acetate.

Vikoflex® High IV epoxidized soybean oil is partially compatible with alkyds.

Vikoflex® High IV epoxidized soybean oil is incompatible with: cellulose acetate, cellulose acetate propionate, and polyvinyl butyral.

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