

# Cargill Vikoflex<sup>®</sup> High IV epoxidized soybean oil

## Product Description

Vikoflex<sup>®</sup> 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<sup>®</sup> 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

### 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.**

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