

Vikoflex® Products

EPOXIDIZED SOYBEAN AND LINSEED FATTY ACID ESTERS

Functional Additives 

Product Description

Our Vikoflex® line consists of epoxidized soybean fatty acid esters, the 7000 series, and epoxidized linseed fatty acid esters, the 9000 series.

Vikoflex® epoxidized soybean and linseed fatty acid ester products are TSCA-registered and appear on many international registries.

Please consult the MSDS for updated, detailed safety and health information.

Applications

Vikoflex® epoxidized soybean and linseed fatty acid ester products are used in applications such as PVC plasticization, stabilization, and acid scavenging.

As plasticizers, Vikoflex® epoxidized soybean and linseed fatty acid ester improves low temperature properties of flexible PVC.

Additional Vikoflex® epoxidized soybean and linseed fatty acid ester applications include: intermediates for lube and fuel oil additives, surfactants, and components of specialty coating formulations.

Vikoflex® epoxidized soybean and linseed fatty acid ester products find use as reactive diluents in cationic and UV cure applications.

Physical and Chemical Properties

| | Vikoflex® 7010 | Vikoflex® 7040 | Vikoflex® 7080 (4050) |
|------------------------|---------------------------|---------------------------|------------------------------|
| CAS Number | 68082-35-9 | 71302-80-2 | 68082-34-8 |
| Freezing Point °F | < 15° F | < 15° F | < 15° F |
| Spec. Gravity | 0.954 | 0.936 | 0.927 |
| Viscosity (CS, 25 max) | 80 | 80 | 80 |
| % Oxirane | 7.0 | 6.3 | 5.3 |
| Iodine Value | 3.0 Max | 3.0 Max | 3.0 Max |
| Acid Value (mg KOH/gm) | 2.0 Max | 2.0 Max | 2.0 Max |
| Color APHA | 175 Max | 175 Max | 175 Max |
| Appearance | Clear Liquid, Pale Yellow | Clear Liquid, Pale Yellow | Clear Liquid, Pale Yellow |
| Odor | Bland | Bland | Bland |

| | Vikoflex® 9010 | Vikoflex® 9040 | Vikoflex® 9080 |
|------------------------|---------------------------|---------------------------|---------------------------|
| CAS Number | 70983-82-3 | 68991-46-8 | 71302-79-9 |
| Freezing Point °F | < 15° F | < 15° F | < 15° F |
| Spec. Gravity | 0.991 | 0.996 | 0.962 |
| Viscosity (CS, 25 max) | 80 | 80 | 80 |
| % Oxirane | 9.0 | 8.0 | 7.0 |
| Iodine Value | 3.0 Max | 3.0 Max | 3.0 Max |
| Acid Value (mg KOH/gm) | 2.0 Max | 2.0 Max | 2.0 Max |
| Color APHA | 175 Max | 175 Max | 175 Max |
| Appearance | Clear Liquid, Pale Yellow | Clear Liquid, Pale Yellow | Clear Liquid, Pale Yellow |
| Odor | Bland | Bland | Bland |

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Environmental and Safety Information

BEFORE HANDLING THIS MATERIAL, READ AND UNDERSTAND THE MSDS (MATERIAL SAFETY DATA SHEET) FOR ADDITIONAL INFORMATION ON PERSONAL PROTECTIVE EQUIPMENT AND FOR SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION.

For Environmental, Safety & Toxicology information, contact our Customer Service Department at 1.800.331.7654 in the US or (+33) (0) 1.49.00.88.02 in Europe to request a Material Safety Data Sheet.

More Technical Information Available

Ask your Arkema account manager for further information about other high quality Arkema additives for use in PVC resins, PVC alloys, and other polymer systems. Arkema produces a full line of heat stabilizers, impact modifiers, process aids and epoxidized vegetable oils. In addition, Arkema's Technical Service staff is available to assist compounders and processors solve formulation and processing problems.

Biostrength® Modifiers for Sustainable Additives

The Biostrength® product line of impact modifiers, melt strengtheners, and metal release agents are designed to improve properties and enhance processability of polylactic acid (PLA) and other biopolymers and biopolymer compounds for use in sheet extrusion, calendaring, blow molding, thermoforming and foamed applications. Biopolymer applications can now achieve the physical properties and economy of traditional petroleum-based engineering resins, so you can confidently deliver a more sustainable product.

Clearstrength® & Durastrength® Impact Modifiers

Clearstrength® and Durastrength® impact modifiers are designed to meet a wide variety of processing requirements, from high efficiency modifiers for durable, exterior building products to high clarity, crease resistant products for packaging applications. Arkema's impact modifiers provide PVC processors with cost effective performance and lot-to-lot consistency.

Plastistrength® Process Aids

Plastistrength® process aids offer producers of rigid and flexible PVC greater product uniformity by improving compound fusion and flow during extrusion, injection molding and thermoforming. Variances in wall thickness and surging can be greatly minimized with Plastistrength® process aids.

Thermolite® Heat Stabilizers

Thermolite® heat stabilizers are designed for use in the production of rigid, semi-rigid, foamed, and flexible PVC products. Arkema has developed PVC heat stabilizers specifically for extruded siding, profiles and pipe, injection molding, blow molded bottles, and calendared or extruded sheet. Arkema offers a full line of stabilizers that meet FDA requirements for food grade PVC packaging, and a full line of NSF authorized stabilizers for PVC potable water pipe & fittings.

Vikoflex® Epoxy Plasticizers

The Vikoflex® line of epoxy plasticizers offers flexible PVC producers one of the highest quality, dual-function epoxidized vegetable oils available. Arkema has the ability to produce material with exacting specifications to meet varied customer requirements.

For Technical Information Contact

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For Order Information Contact

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Visit us at our Website

www.additives-arkema.com (US) or www.arkema.com (Europe)

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See MSDS for Health Considerations. The MSDS on this product is available on our website at www.additives-arkema.com for the US, www.arkema.com for Europe, or contact our customer service department at (+1) (800) 331.7654 in the US or (+33) (0) 1.49.00.88.02 in Europe.

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