



**VIKAS ecOTECH LTD.**  
(Formerly Vikas Globalone Ltd.)

[www.vikasecotech.com](http://www.vikasecotech.com)

**Technical Data Sheet**

**Updated on:** 1<sup>ST</sup> January 2016

# ADDFLEX

**EPOXIDISED SOYABEAN OIL  
PLASTICIZER & CO-STABILIZER**

---

➤ Product Description:

ADDFLEX, an Epoxidised Soybean Oil, is a High Oxirane Content, Efficient & Compatible Vinyl Additive which essentially functions similar to a polymeric type plasticizer by imparting flexibility and controlling migration due to its high molecular weight. It is also a synergetic, heat & light stabilizing additive that compliments the conventional Metallic Stabilizer systems, facilitating superior processing ability and cost reduction.

➤ Characteristics & Usages:

- ❖ ADDFLEX is recommended particularly for formulations such as;
- Efficient Plasticization of all flexible & semi flexible PVC Compounds & Emulsions.
- Supplementing Heat & Light stabilization of Rigid, Semi Rigid & Flexible PVC Compounds
- Heat Stabilization of CPW plasticizers during the manufacturing process.
- Plasticization of Neoprene, Nitrocellulose and Chlorinated Rubber.
- Facilitating homogenous pigment dispersions
- Better Process ability & Output in rigid PVC Compounds.
- Improving Oil & Gas Resistivity.

➤ CAS No.:

**8013-07-8**

➤ Physical & Chemical Properties:

Particulars		ESO 603	ESO 601	Testing Procedure
	Unit	Standard	Standard	
Appearance		Clear pale yellow liquid	Clear pale yellow liquid	Visual
Color	Gardner	2 Max	2 Max	By Comparator
Odour		Mild	Mild	Olfactory
Oxirane Oxygen	%	6.5 ± 0.1	6.2 ± 0.1	ASTM D1652-73
Acid Value	mg KOH/g	1.0 Max	1.0 Max	IS 548
Iodine Value	g I <sub>2</sub> /100 g	2.5 ± 1.0 Max	4.0 ± 1.0 Max	Wij's method
Viscosity at 25 ° C	<b>cSt</b>	450-500 Max	450-500 Max	Ostwalt Viscometer ( U tube)
Specific Gravity at 20 ° C		0.985 ~ 0.995	0.980 ~ 0.990	Hydrometer
Moisture Content at 105 ° C	%	0.15 Max	0.15 Max	Moisture Analyzer
Refractive Index at 25 ° C		1.471-1.475	1.471-1.475	Refractometer
Flash Point	°C	305 Min	295 Min	Flash Point Apparatus (Penskey Marten)

➤ Packaging:

- Standard Packaging: 200Kgs Nett Weight Drums.
- Specific Packaging options can be arranged as per customer's requirement.

➤ Safety & Environmental Information:

- May burn at exposure to direct flame/ very high temperature.
- Extinguishing media: Water / Carbondioxide foam.
- Avoid contact with skin: may cause irritation and / or skin allergy, wear gloves, avoid spillage.
- Avoid contact with eyes: may cause irritation, wear protective safety glasses.
- Avoid inhaling: may cause nausea & vomiting.

➤ Handling & Storage Information:

- Indoor Storage is recommended. Store in cool, dry, ventilated place.
- Stainless Steel / Epoxy coated mild steel is recommended.
- May freeze at 0 °c, store at  $\geq 10^{\circ}\text{c}$ .
- Should be handled with normal precautions for liquids. Refer to the MSDS for safety & health information.

**Disclaimer:**

IMPORTANT: The statements, technical information and recommendations contained herein are believed to be accurate as of the date. Since the conditions and methods of use of the product and of the information referred to, are beyond our control.

Vikas Ecotech Ltd. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization.

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.

Copyright © 2016 Vikas Ecotech Ltd. All Rights Reserved.