



VIKAS eCOTECH LTD.
(Formerly Vikas GlobalOne Ltd.)

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MATERIAL SAFETY DATA SHEET

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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

➤ PRODUCT IDENTIFICATION:

ESO-603, ESO-601

➤ CAS No.:

8013-07-8

➤ Physical & Chemical Properties:

Particulars	Unit	ESO 603 Standard	ESO 601 Standard	Testing Procedure
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 ₂ /100 g	2.5 ± 1.0 Max	4.0 ± 1.0 Max	Wij's method
Viscosity at 25 °C	cSt	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)

➤ **PRODUCT USE:**

- 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

➤ **POTENTIAL HAZARDS INFORMATION:**

FIRE HAZARD:

- **BOILING POINT: 150°C**
- **FLASH POINT: 315°C (DECOMPOSES)**
- **GENERALLY INFLAMABLE: HOWEVER MAY BURN AT ELEVATED TEMPRATURES.**
- **EXTINGUISHING MEDIA: WATER, SAND, DRY POWDER.**
- **COMBUSTION GENERATES CARBON MONOXIDE & CARBON DIOXIDE.**

REACTIVITY:

- **GENERALLY STABLE / NON REACTIVE.**
- **INCOMPATIBLE TO: STRONG ACIDS MAY RESULT IN VOLUME EXPANSION.**

HEALTH HAZARDS:

- THIS MATERIAL IS NOT LIKELY TO CAUSE ANY HEALTH HAZARDS TO HUMANS. THIS MATERIAL IS PRACTICALLY NON TOXIC EVEN IF SWALLOWED OR ABSORBED THROUGH SKIN.
- AVOID REPEATED OR CONTINUOUS CONTACT WITH SKIN: MAY CAUSE SLIGHT IRRITATION AND / OR SKIN ALLERGY, WEAR GLOVES, AVOID SPILLAGE.
- AVOID EXPOSING EYES TO VAPOURS / MIST: AEROSOLS MAY CAUSE IRRITATION.
- AVOID INHALING VAPOURS: MAY CAUSE IRRITATION TO THE RESPIRATORY TRACT.

FIRST AID MEASURES:

- EYES: THOROUGHLY FLUSH EYES WITH WATER, SEEK MEDICAL HELP IF THE IRRITATION PERSISTS.
- SKIN: WASH SKIN WITH WATER AND SOAP. SEEK MEDICAL HELP IF THE IRRITATION PERSISTS.
- INHALATION: MOVE TO FRESH AIR, SEEK MEDICAL HELP.
- INGESTION: DO NOT GIVE LIQUIDS, SEEK MEDICAL HELP IMMEDIATELY.

HANDLING & STORAGE:

HANDLING:

- USE PERSONAL PROTECTIVE DISCRETION, AVOID PROLONGED DIRECT CONTACT.
- KEEP AWAY FROM SPILL WHICH CAN CREATE SLIPPERY CONDITIONS.
- VAPOURS ARE EVOLVED WHEN THE MATERIAL IS HEATED. DO NOT BREATHE VAPOURS / MIST, ARRANGE FOR APPROPRIATE VENTILATION SYSTEM.
- WASH THOROUGHLY AFTER HANDLING, KEEP THE CONTAINERS CLOSED.

STORAGE:

- **INDOOR STORAGE IS RECOMMENDED, STORE IN COOL, DRY, VENTILATED PLACE.**
- **STAINLESS STEEL / EPOXY COATED MILD STEEL / INERT MATERIALS ARE RECOMMENDED FOR STORING, TRANSFER OF MATERIAL.**
- **SHOULD BE HANDLED WITH NORMAL PRECAUTIONS FOR LIQUIDS. REFER TO THE MATERIAL SAFETY DATA SHEET FOR ‘SAFETY AND HEALTH’ INFORMATION.**

Disclaimer:

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