

### FUNCTIONAL V-592

#### TACKIFIER and THICKENER for SYNTHETIC ESTERS

##### APPLICATION:

**Functional V-592** is a tackifier and thickener for synthetic esters and blown or polymerized vegetable oils that can at times be difficult to additize. **Functional V-592** is a unique blend of two polymers that are each NSF approved for applications where incidental food contact may occur. These two polymers work synergistically to impart tackiness to synthetic esters.

##### COMPOSITION:

The active additives in **FUNCTIONAL V-592** are polymers selected for their tackiness properties and effectiveness in thickening. The polymers themselves are not readily biodegradable, but are compatible with lubricants derived from biodegradable base oil systems. The diluent in **FUNCTIONAL V-592** is a biodegradable vegetable oil.

Typical Properties	
Specific Gravity	0.95
Lbs per Gallon	7.95
Flash Point	150°C (300°F)
Kinematic Viscosity	900 cSt at 100°C
Color	Light yellow (1.0 ASTM D1500)
Biodegradable Content	Approx. 85%

##### TREATMENT LEVEL:

A typical starting treatment level to impart tackiness is about 5.0% in a synthetic ester and for polymerized vegetable oils. Higher levels may be required depending on your particular ester or oil and the degree of tackiness required. The best method of adding **Functional V-592** to your oil is to first heat the base oil to 160-200°F with stirring. It is advantageous to heat the **V-592** to 120°F. This allows for faster solubilization into oil. Add the **Functional V-592** and allow to stir for 30 minutes at 180-200°F.

##### HANDLING:

**FUNCTIONAL V-592** is a liquid at room temperature. It can be warmed, if needed, to about 50°C (120°F) to facilitate pumping and handling. Extended storage of this or any other vegetable oil derived product at elevated temperature is not recommended. Safe handling precautions are the same as those to be taken with vegetable oils; see the current Safety Data Sheet.

This Technical Data Sheet and the Safety Data Sheet contain information believed to be accurate and reliable. No warranty is made, however, to information beyond the control of FUNCTIONAL PRODUCTS INC. The engineering and management personnel of the user are responsible for determining the suitability of this or any product for any specific application, and this information is offered to them for that purpose.

Issued: 10/8/2013