CG 405 Technical Date Sheet

1. Chemical Composition

Chemical Name: Pentaerythritol Tetraoleate (PETO)

CAS #: 19321-40-5

2. Product Description

CG 405 is made by reacting pentaerythritol with oleic acid. The formula of the product is $C(CH_2OOCC_{17}H_{33})_4$. CG 405 has excellent lubricity, high viscosity index, and is biodegradable. It is widely used as a base stock in flame resistant hydraulic fluids and metal-working fluids. It is also used in many environmentally friendly oils due to its biodegradability.

3. Applications

- Synthetic ester base oil for flame-resistant hydraulic fluids.
- Biodegradable hydraulic fluids.
- Cutting and grinding oils, industrial rolling oils, and metal-working fluids.

4. Typical Chemical and Physical Properties

Appearance	Bright and clear
Color, ASTM 1500	Light yellow
KV 40 °C, cSt	68
Viscosity Index	180
Pour Point, °C	- 25
Flash point, Open Cup, °C	290

5. Packaging

180 kg / metal drum, 900 kg / IBC tank, Bulk

6. Handling and Storage

Recommended handling temperature: Ambient temperature preferred, 60 °C Max.

Storage: the product is recommended to be stored in cool and dry areas. Direct sunlight should be avoided. Ambient temperature is highly recommended for long-term storage.

Note: The information presented in this data sheet is based on the best of our knowledge and experience, and is given in good faith. Although all information is believed to be accurate and reliable, it is presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Each user should take their own investigations and tests for the suitability and performance to use this product for a specific purpose. The user of this product should be responsible to ensure that existing proprietary rights, laws, and regulations are observed. ChemGulf LLC will not be responsible or liable for any damages resulting from the use of this product or the information contained herein. All statements and information made in this data sheet are subject to change without notice.