CG 403 Technical Date Sheet

1. Chemical Composition

Chemical Name: Trimethylolpropane Trioleate (TMPTO)

CAS #: 57675-44-2

2. Product Description

CG 403 is made by reacting trimethylolpropane with oleic acid. The formula of the product is $CH_3CH_2C(CH_2OOCC_{17}H_{33})_3$. CG 403 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 water-free, flame-resistant hydraulic fluids.
- Biodegradable hydraulic fluids, chain saw oils, and engine oils.
- Rolling oils, drawing oils and metal-working fluids.
- Additives for textile products.

4. Typical Chemical and Physical Properties

Appearance	Bright and clear
Color, ASTM 1500	Light yellow
KV 40 °C, cSt	46
Viscosity Index	180
Pour Point, °C	- 35
Flash point, Open Cup, °C	300

5. Packaging

180 kg / metal drum, 900 kg / IBC tote, 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.

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