SI-DIELECTRIC 30

SYNTHETIC ESTER TRANSFORMER INSULATING FLUID

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	SI-DIELECTRIC 30
Synonym(s):	Polyol Ester with additives
Supplier contact information:	PETROCHEM, INC. 333 North Randall Road St. Charles, IL 60174 Tel: 630-513- 6360 Fax: 630-513-8324 Email: info@petrochem1.com
Emergency Contact Information:	**CHEMTREC (800)-424-9300 International (703) 527-3887**
Use of the substance/mixture:	Lubricant
Date Prepared:	04/2022
Revision Date/Version:	10/2026 Rev. 1

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Not classified as hazardous.

OSHA Regulatory Status
This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200/HazCom 2012) Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

2.2. Label Elements:
Not classified as hazardous.

2.3 Other information:
No other information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature is polyol ester with additives. Product is a mixture. This product contains no substances which at their given concentration are considered to be hazardous to health.

4. FIRST AID MEASURES

Ingestion:	If swallowed, rinse mouth with water. Observe victim for 24 hours. Do not induce vomiting. If vomiting occurs, keep head lower than hips to prevent aspiration. If large amounts were ingested, consult a physician/poison control center.

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Skin:	Wipe away excess material with a dry towel, then wash with soap and water for several minutes. Remove contaminated clothing and shoes. If a rash or skin irritation occurs, contact a physician.
Inhalation:	If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.
Eyes:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
Notes to Physician:	Treatment based on sound judgment of physician and individual reactions of patients.

4.2 Most important symptoms and effects both acute and delayed

Ingestion:	May cause gastrointestinal distress.
Skin:	May cause mild skin irritation upon prolonged or repeated contact.
Inhalation:	Mists may cause irritation of the respiratory tract.
Eyes:	May cause eye irritation.

5. FIRE FIGHTING MEASURE

5.1 Extinguishing Media

Suitable extinguishing media:	Water spray, dry chemical, alcohol foam, or carbon dioxide.
Unsuitable extinguishing media:	Water jet.

5.2 Special hazards arising from the substance or mixture

Closed containers may explode due to the buildup of pressure when exposed to extreme heat. Under fire conditions, product may undergo thermal decomposition and emit toxic fumes of Cox.

5.3 Advice for firefighters

Full protective equipment including self-contained breathing apparatus and protective clothing should be used. Water may be used to cool containers to prevent pressure buildup and possible rupture when exposed to extreme heat. If possible, water contaminated by this material should be contained and prevented from being discharged to any waterway, sewer, or drain to avoid environmental contamination.

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6. ACCIDENTAL RELASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Wear protective gloves, eye protection, and face protection. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas.

6.2 Environmental precautions

Avoid dispersal of spilled material or runoff and prevent contact with soil and entry into drains, sewers, and waterways.

6.3 Methods and materials for containment and cleaning up

Cover drains and contain spill. Take up with inert absorbent material (e.g. vermiculite, general purpose binder). Shovel or sweep up product and place into an approved container for proper disposal. Wash walking surfaces with detergent and water to reduce slipping hazard. Dispose of material in accordance with local, state and federal regulations.

7. Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Wear protective gloves, eye protection, and face protection. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Wash contaminated clothing and shoes before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, and well-ventilated area away from incompatible materials. Keep container tightly closed. Protect containers from physical damage. Containers may be hazardous when empty as they contain product residues.

8. Exposure Controls/Personal Protection

Engineering Controls:	Safety measures and appropriate working conditions should be given priority, with use of personal protective equipment a secondary measure. Use adequate ventilation to reduce the exposure of mists or vapors. Facility should be equipped with an eyewash station and safety shower.
Hygiene Controls:	Avoid contact with eyes or skin. Wash hands thoroughly after use and before eating, drinking or bathroom use.

Personal Protective Equipment

Respiratory Protection:	If ventilation is limited or use may generate aerosols or mists, use full-face respirator with multi-purpose cartridges.
Protective Gloves:	Use gloves as a standard industrial handling procedure.
Eye and Face Protection:	Wear safety glasses or goggles to protect against exposure.
Skin Protection:	Wear protective clothing.

9. Physical and Chemical Properties

Form and Appearance:	Clear colorless to yellowish liquid
Odor:	Characteristic
Odor Threshold:	N/D

Property	**Values**
pH	Not applicable
Melting/Freezing Point	~64°F (-53° C) (pour point)
Boiling point	>502°F (261°C)
Flash point	~495°F (257°C)
Specific Gravity/Bulk Density	~0.98 @ 2-67°C
Viscosity	~31 cSt @ 40°C
Evaporation rate	N/D
Volatile Content	< 1.0%
Water solubility (20°C)	Insoluble in water
Decomposition Temperature	N/D
Auto-Ignition Temperature	N/D
Octano/Water Partition Coefficient	N/D
VOC Data	N/D

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under ordinary conditions of use and storage
Possibility of Hazardous Reactions:	Will not occur under ordinary conditions of use and storage
Conditions to Avoid:	Contact with incompatible materials, moisture
Incompatibility (Materials to Avoid):	Strong oxidizers, strong acids
Hazardous Decomposition Products:	Thermal decomposition may produce toxic fumes of COx

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute Oral Toxicity:	LD50, rat: > 2,000 mg/kg
Acute Inhalation Toxicity:	Not Available
Acute Dermal Toxicity:	LD50, rat: > 2,000 mg/kg
Acute Inhalation Toxicity:	Not Available
Mutagenicity:	Not Available
Specific Target Organ Toxicity-Single Exposure:	Not Available
Specific Target Organ Toxicity-Repeated Exposure:	Not Available
Genotoxicity in Vitro:	No Effects Known
Eye Irritation:	Non-irritating
Skin Irritation:	Non-irritating
Aspiration Hazard:	No Effects Known

11.2 Further Information

This material is not listed as a carcinogen by IARC, ACGIH, NTP, or OSHA. No data is available regarding the mutagenicity or teratogenicity of this material in humans, nor is there available data that indicates that it causes adverse development or fertility effects in humans. Handle in accordance with good industrial hygiene and safety practice.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Acute and Chronic Aquatic Toxicity: LC50 (96h) – Fish: > WSL

EC50 (48h) – Daphnia magna: > WSL

12.2 Persistence and Degradability

Readily biodegradable. Biodegradability: greater than 70% within 28 days, in accordance with OECD 301B and 301F test methods.

12.3 Bioaccumulation Potential

Not anticipated to accumulate in biological organisms.

12.4 Mobility in Soil

No data available

12.5 Results of PBT and vPvB Assessment

Substance is not PBT / vPvB

12.6 Other Adverse Effects

Avoid release into surface waters, wastewater, or soil

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Methods of Disposal:	Unused product or empty containers may be disposed of as non-hazardous in accordance with local, state, provincial and national disposal regulations
Hazardous Waste:	This material, as sold, is not considered a hazardous waste under RCRA 40 CFR 261

14. TRANSPORT REGULATIONS

Land Transport (DOT, ADR/RID):	Not classified as dangerous in transport
Air Transport (IATA/ICAO):	Not classified as dangerous in transport
Marine Transport (IMDG):	Not classified as dangerous in transport

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA 311/312 Hazards:	No applicable hazards
SARA 302/304 (TPQ/RQ):	No components listed
SARA 313:	No components listed
CERCLA (RQ):	No components listed
CAA 112(b) HAPS:	No components listed

U.S. State Regulations

California Prop. 65	Methanol (< 10 ppm)
State RTK/HSL Information	No components listed

International Regulations

No additional information available

Chemical Inventory Listing

United States (TSCA)	Complies with inventory (ACTIVE)
European Union (EINECS/ELINCS/NLP)	Complies with inventory
Australia (AICS)	Complies with inventory
Philippines (PICCS)	Complies with inventory
Canada (DLS/NDSL)	Complies with inventory (DSL)
Korea (KECL)	Complies with inventory
Japan (ENCS/ISHL)	Complies with inventory
China (IECSC)	Complies with inventory
New Zealand (NZIoC)	Complies with inventory
Taiwan (TSCI)	Complies with inventory
Thailand (TECI)	Complies with inventory

15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out on this product.

16. ADDITIONAL INFORMATION

Issue Date: 04/2022

Revision Date: 10/2026

Rev. 1

KEY TO ABBREVIATIONS:

N/D: Not determined

General Disclaimer

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