



**GE COMPANY**

**MATERIAL SAFETY DATA SHEET**

TRANSMISSION SYSTEMS  
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FORT EDWARD, NY 12828-1000

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CHEMTREC: (800) 424-9300

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**I. IDENTITY**

PRODUCT NAME: DIELEKTROL®-VI FLUID

SYNONYM(s): DK-VI

FORMULA: N.A.

CHEMICAL NAME: N.A.

**II. INGREDIENTS**

| <u>COMPONENT(s):</u>       | <u>Percent</u> | <u>CAS Number</u> | <u>TWA</u> | <u>STEL</u> |
|----------------------------|----------------|-------------------|------------|-------------|
| Polypropylene Glycol [PPG] | >99            | 25791-96-2        | N.E.       | N.E.        |

**III. PHYSICAL CHARACTERISTICS**

BOILING POINT: Decomposes before boiling.  
MELTING POINT: N.A.  
FREEZING POINT: N.D.  
VAPOR DENSITY (Air=1): >1  
VISCOSITY @ 37.8°C: ca 480 cSt  
POUR POINT, Max.: -18°C  
APPEARANCE AND ODOR: Clear colorless, viscous liquid, faint nut-like odor on heating.

SPECIFIC GRAVITY (H<sub>2</sub>O=1) @ 25/25°C: >1.00  
PERCENT VOLATILE BY VOLUME: Nil  
SOLUBILITY IN WATER @ 25°C: <0.02%  
EVAPORATION RATE (ether = 1): Nil  
REACTIVITY IN WATER: Very Low  
VAPOR PRESSURE @ 25°C: <0.3 mmHg

**IV. FIRE & EXPLOSION DATA**

FLASH POINT (min): >177°C (>350°F)

METHOD USED: PMCC, ASTM D-93

AUTO-IGNITION TEMPERATURE: N.D.

FLAMMABLE LIMITS IN AIR % BY VOLUME: LOWER: N.D. UPPER: N.D.

EXTINGUISHING MEDIA:

Foam    CO<sub>2</sub>    Dry Chemical    Water Fog   Other

SPECIAL FIRE FIGHTING PROCEDURES: Do not spray pools directly, may cause frothing. Use self-contained breathing apparatus and body covering protective clothing. Burning can produce oxides of carbon and nitrogen.

UNUSUAL FIRE & EXPLOSIVE HAZARDS: None; combustible liquid (OSHA Class III-B).

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## V. REACTIVITY DATA

|                                       |   |
|---------------------------------------|---|
| STABILITY:                            | Unstable <b>X</b> Stable  |
| CONDITIONS TO AVOID:                  | Product can oxidize at elevated temperatures.<br>Product can decompose at elevated temperatures.  |
| INCOMPATIBILITY (MATERIALS TO AVOID): | Avoid contact with strong oxidizing materials. Avoid unintended contact with isocyanates. The reaction of polyols and isocyanates generates heat. Avoid contact with strong acids.                      |
| HAZARDOUS DECOMPOSITION PRODUCTS:     | Depends on temperature, air supply, and the presence of other materials. Hazardous decomposition products may include and are not limited to: aldehydes, ketones, organic acids, and polymer fragments. |
| HAZARDOUS POLYMERIZATION:             | May Occur <b>X</b> Will Not Occur by itself   |

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## VI. HEALTH HAZARDS

OSHA PERMISSIBLE EXPOSURE LIMIT AND ACGIH THRESHOLD LIMIT VALUE:

|                                   |      |
|-----------------------------------|------|
| TIME WEIGHTED AVERAGE (TWA):      | N.E. |
| SHORT TERM EXPOSURE LIMIT (STEL): | N.E. |

PRINCIPAL ROUTES OF EXPOSURE:                      Skin contact

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

ACUTE OVEREXPOSURE:                      May cause slight skin irritation; nausea if swallowed. Harmful health effects are not expected from vapor generated at ambient temperature.

CHRONIC OVEREXPOSURE:                      N.E.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE: N.D.

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:

|                             |     |             |
|-----------------------------|-----|-------------|
| National Toxicology Program | Yes | <b>X</b> No |
| I.A.R.C. Monographs         | Yes | <b>X</b> No |
| OSHA                        | Yes | <b>X</b> No |

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## VII. EMERGENCY & FIRST AID PROCEDURES

|             |   |
|-------------|---|
| INHALATION: | No evidence of adverse effects from available information. Remove to fresh air.               |
| EYES:       | Flush promptly with running water for 15 minutes. Get medical help.                           |
| SKIN:       | Wash contact area promptly with soap and water.   |
| INGESTION:  | Seek medical attention. Do not induce vomiting unless directed to do so by medical personnel. |

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## VIII. SPECIAL PROTECTION INFORMATION

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|---|--|
| RESPIRATORY PROTECTION:                 | Generally not needed unless product is misted or heated and concentration is above oil mist limit.                                       |
| EYE PROTECTION:                         | Safety glasses - goggles for splashing   |
| PROTECTIVE GLOVES:                      | PVC coated gloves  |
| OTHER PROTECTIVE CLOTHING OR EQUIPMENT: | Eye wash station where splashing can occur.  |
| VENTILATION:                            | General ventilation combined with local exhaust ventilation when material is heated or misted and concentration is above oil mist limit. |

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## IX. TOXICITY DATA

|            |  |
|------------|--|
| SKIN:      | For this family of materials, the dermal LD <sub>50</sub> in rabbits is typically >2000 mg/kg. |
| INGESTION: | For this family of materials, the oral LD <sub>50</sub> in rats is typically >2000 kg/mg.      |

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## X. ECOLOGICAL INFORMATION

|                            |   |
|----------------------------|---|
| ENVIRONMENTAL FATE:        |   |
| MOVEMENT & PARTITIONING:   | No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000).   |
| DEGRADATION & PERSISTENCE: | No relevant information found.  |
| ECOTOXICITY:               | Based largely or completely on information for similar materials. Materials is practically non-toxic to aquatic organisms on an acute basis (LC <sub>50</sub> greater than 100 mg/l in most sensitive species). |

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## XI. PRECAUTIONS & SPILL/LEAK PROCEDURES

|  |   |
|--|---|
| PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:           | Store in cool place, preferably below 30°C. Store in sealed containers to preserve good electrical properties. May be a slipping hazard.  |
| OTHER PRECAUTIONS:   | Follow good hygienic practices. Do not eat or smoke where material is used or stored. Emptied containers may contain residual products, keep away from heat, sparks and flames. |
| STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: | Contain spill; recover liquid via vacuum or by adsorbent material such as saw dust or clay. Product on surfaces can cause slippery conditions.                                  |
| WASTE DISPOSAL METHODS:                                    | Incinerate; observe federal, state and local laws   |

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## XII. REGULATORY INFORMATION

|   |  |              |
|---|--|--------------|
| Department of Transportation (DOT):                               | Dielektrol-VI (DK-VI) is not regulated as a hazardous material under DOT.                      |              |
| SARA:   | DK-VI is not subject to the Toxic Chemical Release Reporting requirements of SARA Section 313. |              |
| REPORTABLE QUANTITY (RQ) UNDER CERCLA:                            | DK-VI is not regulated under CERCLA reportable quantity values.                                |              |
| Canadian Workplace Hazardous Material Information System (WHMIS): | DK-VI is not a "Controlled Product" under WHMIS  |              |
| NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATING:               | [0]  | HEALTH       |
|   | [1]  | FLAMMABILITY |
|   | [0]  | REACTIVITY   |
| HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:           | [0]  | HEALTH       |
|   | [1]  | FLAMMABILITY |
|   | [0]  | REACTIVITY   |

(Least-0, Slight-1, Moderate-2, High-3, Extreme-4)

These values are obtained using the guidelines or published evaluation prepared by the National Fire Protection Association (NFPA) or, if applicable, the National Paint and Coating Association (for HMIS ratings).

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N.A. - Not Applicable

N.E. - Not Established

N.D. - Not Determined

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