

2.2 Polypropylene Glycol MSDS

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g GE COMPANY MATERIAL SAFETY DATA SHEET

TRANSMISSION SYSTEMS

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EMERGENCY NO.: (518) 761-5693 LAST REVISED: December 7, 1999

CHEMTREC: (800) 424-9300 GE ID NUMBER: AESN

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I. IDENTITY

PRODUCT NAME: DIELEKTROL®-VI FLUID SYNONYM(s): DK-VI

FORMULA: N.A. CHEMICAL NAME: N.A.

II. INGREDIENTS

COMPONENT(s): Percent CAS Number TWA STEL

Polypropylene Glycol [PPG] >99 25791-96-2 N.E. N.E.

III. PHYSICAL CHARACTERISTICS

BOILING POINT: Decomposes before boiling. SPECIFIC GRAVITY (H₂O=1) @ 25/25°C: >1.00

MELTING POINT: N.A. PERCENT VOLATILE BY VOLUME: Nil

FREEZING POINT: N.D. SOLUBILITY IN WATER @ 25°C: <0.02%

VAPOR DENSITY (Air=1): >1 EVAPORATION RATE (ether = 1): Nil

VISCOSITY @ 37.8°C: ca 480 cSt REACTIVITY IN WATER: Very Low

POUR POINT, Max.: -18°C VAPOR PRESSURE @ 25°C: <0.3 mmHg

APPEARANCE AND ODOR: Clear colorless, viscous liquid, faint nut-like odor on heating.

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:

x Foam x CO₂ x Dry Chemical x 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 x Stable

CONDITIONS TO AVOID: Product can oxidize at elevated temperatures.

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 x Will Not Occur by itself

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 x No

I.A.R.C. Monographs Yes x No

OSHA Yes x No

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

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.

IX. TOXICITY DATA

SKIN: For this family of materials, the dermal LD₅₀ in rabbits is typically >2000 mg/kg.

INGESTION: For this family of materials, the oral LD₅₀ in rats is typically >2000 kg/mg.

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 (LC₅₀ greater than 100 mg/l in most sensitive species).

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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