



**GE COMPANY**

## MATERIAL SAFETY DATA SHEET

TRANSMISSION SYSTEMS  
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### I. IDENTITY

PRODUCT NAME (used or label): DIELEKTROL®-III FLUID

SYNONYM(s): DK-III

CHEMICAL NAME: Phenyl Xylyl Ethane (PXE)

FORMULA: C<sub>16</sub>H<sub>18</sub> for PXE

### II. INGREDIENTS

<u>COMPONENT(s):</u>	<u>%</u>	<u>CAS Number</u>	<u>TWA</u>	<u>STEL</u>
Phenyl Xylyl Ethane (PXE)	>95	6196-95-8	N.E.	N.E.
Epoxide and Phenolic Stabilizers	< 1	N.A.	N.A.	N.A.

### III. PHYSICAL CHARACTERISTICS

INITIAL BOILING POINT @ 760 mmHg: 316°C (601°F)	SPECIFIC GRAVITY (H <sub>2</sub> O=1) @ 20/20°C: 0.985
MELTING POINT: N.A.	PERCENT VOLATILE BY VOLUME: N.D.
FREEZING POINT: N.D.	SOLUBILITY IN WATER @ 25°C: <1%
VAPOR DENSITY (Air=1): N.D.	EVAPORATION RATE (ether = 1): N.D.
VISCOSITY @ 37.8°C: ca 5.2 cSt	REACTIVITY IN WATER: Very Low
POUR POINT, Max.: -50°C	VAPOR PRESSURE @ 25°C: 0.01 mmHg
APPEARANCE AND ODOR: Low viscosity, water-white liquid, woody odor.	

### IV. FIRE & EXPLOSION DATA

FLASH POINT (min): 145°C (293°F) COC

AUTO-IGNITION TEMPERATURE: 375°C (707°F)

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

EXTINGUISHING MEDIA:

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

SPECIAL FIRE FIGHTING PROCEDURES: Use foam and water extinguishing agents carefully to prevent excessive frothing.

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

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## V. REACTIVITY DATA

STABILITY: ☐ Unstable ☒ Stable

CONDITIONS TO AVOID: Do not heat above flash point

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: Can form aromatic hydrocarbons and carbon monoxide upon pyrolysis or combustion.

HAZARDOUS POLYMERIZATION: ☐ May Occur ☒ Will Not Occur

CONDITIONS TO AVOID: N.A.

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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; inhalation - principally on heating or misting.

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

ACUTE OVEREXPOSURE: Prolonged or repeated skin contact may cause dermatitis. Excessive exposure to vapors is moderately irritating to eyes and mucous membrane.

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	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
I.A.R.C. Monographs	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
OSHA	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

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## VII. EMERGENCY & FIRST AID PROCEDURES

INHALATION:	Remove to fresh air. Get medical help if irritation persists.
EYES:	Flush promptly with running water for 15 minutes. Get medical help.
SKIN:	Wash contact area promptly with soap and water.
INGESTION:	Do not induce vomiting. Administer 2-4 oz. vegetable or olive oil and 1-2 oz. activated charcoal. Get medical attention.

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## VIII. TOXICITY DATA

Moderate toxicity (rat oral LD50 2 g/kg).

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## IX. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:	Generally not needed unless product is misted or heated.
EYE PROTECTION:	Safety glasses - goggles for splashing
PROTECTIVE GLOVES:	Rubber, neoprene or butyl.
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.

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## X. 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.
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.
WASTE DISPOSAL METHODS:	Incinerate; observe federal, state and local laws

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## XI. REGULATORY INFORMATION

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