



TRANSMISSION, DISTRIBUTION & INDUSTRIAL SYSTEMS
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GE ID NUMBER: ACCS

I. IDENTITY

PRODUCT NAME: DIELEKTROL® - VII FLUID

SYNONYM(s): DK-VII

CHEMICAL FAMILY: Alkyl Aryl Alkanes

CHEMICAL NAME: N.A.

II. INGREDIENTS

<u>COMPONENT(s):</u>	<u>Percent</u>	<u>CAS Number</u>	<u>TWA</u>	<u>STEL</u>
Benzyl Toluene	~58 %	27776-01-8	N.E.	N.E.
1,1-Diphenylethane	~37 %	612-00-0	N.E.	N.E.
1,2-Diphenylethane	< 2 %	103-29-7	N.E.	N.E.
Diphenylmethane	< 2 %	101-81-5	N.E.	N.E.
Epoxide additive	< 0.1 %	N.A.	N.E.	N.E.

III. PHYSICAL CHARACTERISTICS

INITIAL BOILING POINT @ 760 mmHg: 270-290°C
MELTING POINT: <-65°C
FREEZING POINT: N.E.
VAPOR DENSITY (Air=1): 6.3
VISCOSITY @ 40.0°C: ca. 2.6 cSt
POUR POINT, Max.: <-65°C
APPEARANCE AND ODOR: Clear non-viscous liquid with aromatic odor.

SPECIFIC GRAVITY (H₂O=1) @ 20/20°C: 0.997-1.00
PERCENT VOLATILE BY VOLUME: N.E.
SOLUBILITY IN WATER @ 25°C: 5 ppm
EVAPORATION RATE (ether=1): Very Slow
REACTIVITY IN WATER: Stable
VAPOR PRESSURE @ 70°F: 0.00005 psi

IV. FIRE & EXPLOSION DATA

FLASH POINT (min): 140°C (284°F) COC

FIRE POINT: 150°C (302°F)

AUTO-IGNITION TEMPERATURE: 450°C (842°F) (estimated)

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

EXTINGUISHING MEDIA: Foam x CO₂ x Dry Chemical x Water Fog Other

SPECIAL FIRE FIGHTING PROCEDURES: In case of fire, wear full protective clothing and NIOSH approved positive pressure self-contained breathing apparatus (SCBA) with full face piece. Water or foam may cause frothing if it gets below the surface of the liquid and turns to steam. Water can be used to cool fire-exposed containers, to protect personnel and to disperse vapors and spills.

UNUSUAL FIRE & EXPLOSIVE HAZARDS: Decomposes at 400-1000°C releasing water and oxides of carbon in the presence of air. Combustible liquid (OSHA Class III-B)

V. REACTIVITY DATA

STABILITY:	Unstable x Stable
CONDITIONS TO AVOID:	Heat, flame, prolonged storage at elevated temperatures.
INCOMPATIBILITY (MATERIALS TO AVOID):	Strong oxidizing materials may ignite this material.
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of carbon including toxic carbon monoxide gas and asphyxiants.
HAZARDOUS POLYMERIZATION:	May Occur x Will Not Occur
CONDITIONS TO AVOID:	N.A.

VI. HEALTH HAZARDS

PRINCIPAL ROUTES OF EXPOSURE: Eyes, skin contact, inhalation and ingestion.

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

ACUTE OVEREXPOSURE:

EYE CONTACT: May cause transient eye irritation (tears, blurred vision and redness).

SKIN CONTACT: Direct skin contact may cause skin irritation (redness, swelling).

INGESTION: Signal dose oral toxicity is low. If aspirated (liquid in lungs), may cause lung damage due to chemical pneumonia, a condition caused by petroleum and petroleum-like solvents

INHALATION: Overexposure to vapors may produce central nervous depression, headaches, dizziness, incoordination, nausea and loss of appetite.

CHRONIC OVEREXPOSURE: ND

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

VII. EMERGENCY & FIRST AID PROCEDURES

EYES:	Irrigate immediately with large amounts of water until irritation subsides. Hold eyelids open when flushing. If irritation persists, get medical attention.
SKIN:	Remove contaminated clothing and wash affected area promptly with soap and water. Get medical attention if irritation develops and persists.
INGESTION:	If swallowed, DO NOT induce vomiting. If aspirated (liquid enters the lungs), may cause lung damage due to chemical pneumonia, a condition caused by petroleum and petroleum-like solvents. Seek medical attention immediately.
INHALATION:	No harmful effects are anticipated from breathing a low concentration of vapors for a short period of time. If a problem develops, remove the person to fresh air. If not breathing, give artificial respiration and get medical attention immediately.

VIII. ECOLOGICAL INFORMATION

This material is expected to be bio-degradable at aerobic conditions.

IX. TOXICITY DATA

ORAL ACUTE TOXICITY	LD ₅₀ , Rat: Male 2.7 gr/kg (14 days) Female 2.2 gr/kg (14 days)
DERMAL ACUTE TOXICITY	LD ₅₀ , Rat: Male / Female >2 gr/kg
SKIN SENSITIZATION:	Guinea pig, Bueler: Non sensitizing
ACUTE DERMAL IRRITATION:	Rabbit: Moderate irritation
ACUTE EYE IRRITATION:	Rabbit: Minimal irritation
SUBACUTE TOXICITY	Rat, Oral, 28 days: No dead at maximum dose (1 gr/kg) NOEL: 50 mg/kg/day
MUTAGENECITY:	Ames Test: Negative In vivo Mouse Micronucleus Test: Negative

CARCINOGEN LIST BY NTP, IARC OR OSHA:

No component of this product present at levels greater than 0.1% is identified as a carcinogen by NTP, IARC or OSHA

X. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:	Where vapors are generated, a NIOSH approved organic respirator suitable to the airborne concentration.
EYE PROTECTION:	Safety glasses with side shields or goggles. Face shield for splashing.
PROTECTIVE GLOVES:	Nitrile or natural rubber gloves.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT:	Wear long sleeved body-covering clothing to prevent skin contact. Launder contaminated clothing before reuse. Eye wash station where splashing can occur.
VENTILATION:	Adequate ventilation is essential for handling the fluid. Due to high vapor density, downflowing exhaust ventilation is recommended.

XI. HANDLING AND STORAGE INFORMATION

HANDLING	Areas of fluid handling should be well ventilated. Avoid contact with eyes. Avoid prolonged or repeated breathing of vapor and contact with skin.
STORAGE:	Store in cool place, preferably below 30°C well ventilation area, far from open flames and areas where damage of fire exists. 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.

XII. ACCIDENTAL SPILL/RELEASE MEASURES

SMALL SPILL:	Contain spill; recover liquid via vacuum or by adsorbent material such as clay, dry sand or earth. Place in chemical waste container.
LARGE SPILL:	Contain spilled liquid sand or earth. Transfer absorbed waste materials into drums. Prevent runoff from entering storm sewers and ditches, which lead to natural waterways.
WASTE DISPOSAL METHODS:	Incinerate where permitted, observe federal, state and local laws.

XIII. REGULATORY INFORMATION

TRANSPORT INFORMATION:	Dielektrol-VII is not regulated as a hazardous material under Department Of Transportation (DOT).
SARA HAZARD CATEGORY:	This product has been, according to EPA Hazard Categories, promulgated under Section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: •An immediate health hazard for skin and/or eye contact.
SARA 313 INFORMATION:	This product contains no substances that are currently subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372.
REPORTABLE QUANTITY (RQ) UNDER CERCLA:	Dielektrol-VII is not regulated under reportable quantity value.
TOXIC SUBSTANCE CONTROL ACT (TSCA)	The ingredients of this product are all on the TSCA inventory list.
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATING:	[1] HEALTH [1] FLAMMABILITY [0] REACTIVITY [B] PERSONAL PROTECTIVE EQUIPMENT
HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:	[1] HEALTH [1] FLAMMABILITY [0] REACTIVITY [B] PERSONAL PROTECTIVE EQUIPMENT

(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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