

E I DUPONT DE NEMOURS & CO INC -- KRYTOX 240 SERIES FLUORINATED GREASE, GRADE AC --  
9150-01-429-2125

===== Product Identification =====

Product ID:KRYTOX 240 SERIES FLUORINATED GREASE, GRADE AC

MSDS Date:05/05/1995

FSC:9150

NIIN:01-429-2125

MSDS Number: CCZDP

=== Responsible Party ===

Company Name:E I DUPONT DE NEMOURS & CO INC

Address:1007 MARKET ST

City:WILMINGTON

State:DE

ZIP:19898

Country:US

Info Phone Num:800-441-7515

Emergency Phone Num:800-441-3637;800-424-9300(CHEMTREC)

CAGE:0ERJ7

=== Contractor Identification ===

Company Name:E I DUPONT DE NEMOURS & CO, INC.

Address:1007 MARKET STREET

City:WILMINGTON

State:DE

ZIP:19898

Country:US

Phone:800-441-7515

CAGE:0ERJ7

Company Name:E.I. DUPONT DE NEMOURS & CO

Address:1007 MARKET STREET

Box:City:WILMINGTON

State:DE

ZIP:19898

Country:US

Phone:800-441-7515;800-441-9442

CAGE:18873

===== Composition/Information on Ingredients =====

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Ingred Name:PERFLUOROALKYLEETHER LD50 (ORAL RAT): > 25,000 MG/KG  
CAS:60164-51-4  
Fraction by Wt: 73-82%  
OSHA PEL:N/K  
ACGIH TLV:N/K

Ingred Name:ETHYLENE, TETRAFLUORO-, POLYMER; (PTFE)  
CAS:116-14-3  
RTECS #:KX4025000  
Fraction by Wt: 18-27%  
OSHA PEL:N/K  
ACGIH TLV:N/K

Ingred Name:EFTS OF OVEREXP: EYE IRRIT. A SINGLE INHAL EXPOS TO  
PERFLUOROALKYLEETHER CAUSED NONSPECIFIC EFTS SUCH AS RESP (ING 4)  
RTECS #:9999999ZZ

Ingred Name:ING 3: IRRIT. TOX EFTS DESCRIBED IN ANIMALS EXPOSED TO  
DECOMP PRODS OF PERFLUOROALKYLEETHER FORMED ABOVE 260C (ING 5)  
RTECS #:9999999ZZ

Ingred Name:ING 4: (500F) INCL LUNG IRRIT, IRREGULAR RESP, TREMORS &  
INCREASED LIVER WT. PULM EDEMA & DEATH OCCURRED IN (ING 6)  
RTECS #:9999999ZZ

Ingred Name:ING 5: RATS EXPOSED TO THE DECOMP PRODS OF  
PERFLUOROALKYLEETHER FORMED AT AROUND 290C (554F). A SINGLE INHAL  
(ING 7)  
RTECS #:9999999ZZ

Ingred Name:ING 6: EXPOS TO PTFE CAUSED IRRIT OF THE LUNGS. A RPTD  
INGEST EXPOS CAUSED NO SIGNIFICANT TOXICO  
LOGICAL EFTS. (ING 8)  
RTECS #:9999999ZZ

Ingred Name:ING 7: LONG-TERM INGESTION EXPOSURE CAUSED ALTERED WHITE  
BLOOD CELL COUNT.  
RTECS #:9999999ZZ

===== Hazards Identification =====

LD50 LC50 Mixture:SEE INGREDIENT 1.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: SKIN: MAY CAUSE IRRIT  
W/DISCOMFORT/RASH. PRLNG SKIN CONT MAY CAUSE REDNESS & INFLAMM OF

HAIR FOLLICLES W/OUT SKIN SENSIT. EYES: MAY CAUSE IRRIT W/DISCOMFORT, TEARING/BLURRING OF VISION. INHAL O F FLUORINE CMPDS RELEASED AS DECOMP PRODS ABOVE 290C (554F) MAY CAUSE LUNG IRRIT & PULM EDEMA WHICH (EFTS OF OVEREXP)

Explanation of Carcinogenicity:NOT RELEVANT.

Effects of Overexposure:HLTH HAZ: REQUIRE MED TREATMENT. INHAL OF FUMES/SMOKE FROM OVERHEATED/BURNING GREASE MAY CAUSE POLYMER FUME FEVER, A TEMPORARY FLU-LIKE ILLNESS ACCOMPANIED BY FEVER, CHILLS, & SOME

TIMES COUGH, OF APPR OX 24 HRS DURATION. RPTD EPISODES OF POLYMER FUME FEVER MAY CAUSE LUNG DMG. TOX INFO: THE PROD CONTAINS A MILD (ING 3)

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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===== First Aid Measures =====

First Aid:INHAL: REMOVE TO FRESH AIR. IF NOT BRTHG, GIVE ARTF RESP. IF BRTHG IS DFCLT, GIVE OXYGEN. CALL MD. SKIN: FLUSH W/WATER AFTER CONT. WASH CONTAM CLTHG BEFORE REUSE. EYES: IMMED FLUSH W/PLENTY OF

WATER F OR AT LEAST 15 MIN. CALL MD. INGEST: DONOT INDUCE VOMIT. IMMED GIVE 2 GLASSES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCON PERS. CALL MD. NOTES TO MD: ACTIVATED CHARCOAL MIX MAY BE (SUP DAT)

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===== Fire Fighting Measures =====

Flash Point Method:PMCC

Flash Point:DOES NOT IGNITE

Extinguishing Media:AS APPROPRIATE FOR COMBUSTIBLES IN AREA.

Fire Fighting Procedures:WEAR NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT .

Unusual Fire/

Explosion Hazard:DECOMPOSITION AT FLAME TEMPERATURES MAY FORM TOXIC FLUORINE COMPOUNDS. AVOID BREATHING DECOMPOSITION PRODUCTS.

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===== Accidental Release Measures =====

Spill Release Procedures:NOTE: REVIEW FIRE FIGHTING MEASURES AND HANDLING (PERSONNEL) SECTIONS BEFORE PROCEEDING WITH CLEAN-UP. USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT DURING CLEAN-UP. PLACE IN CONTAINER FOR DISPOSAL. R EMOVE SOURCES OF HEAT AND FLAME.

Neutralizing Agent:NONE

SPECIFIED BY MANUFACTURER.

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===== Handling and Storage =====

Handling and Storage Precautions: AVOID CONTACT WITH EYES AND SKIN. DO NOT STORE OR CONSUME FOOD, DRINK OR TOBACCO IN AREAS WHERE THEY MAY BECOME CONTAMINATED WITH THIS MATERIAL.

Other Precautions: KEEP CONTAINER TIGHTLY CLOSED. DO NOT STORE OR CONSUME FOOD, DRINK OR TOBACCO IN AREAS WHERE THEY MAY BECOME CONTAMINATED WITH THIS MATERIAL. KEEP AWAY FROM HEAT AND FLAMES TO AVOID DECOMPOSITION PRODUCT.

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===== Exposure Controls/Personal Protection =====

Respiratory Protection: WHERE THE POTENTIAL EXISTS FOR EXPOSURE TO DECOMPOSITION PRODUCTS DUE TO HEATING OR ELEVATED TEMPERATURES, WEAR NIOSH APPROVED RESPIRATORY PROTECTION AS APPROPRIATE.

Ventilation: KEEP CONTAINER TIGHTLY CLOSED. KEEP AWAY FROM HEAT AND FLAMES.

Protective Gloves: IMPERVIOUS GLOVES.

Eye Protection: ANSI APPROVED CHEM WORKERS GOGGLES .

Other Protective Equipment: EMERGENCY EYEWASH AND DELUGE SHOWER MEETING

ANSI DESIGN CRITERIA . APRON, PANTS, AND JACKET.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

HAZ DECOMP PROD: RATES AS TEMP IS RAISED ABOVE 355C (670F). FIRST AID PROC: ADMINISTERED. TO PREPARE ACTIVATED CHARCOAL MIX, SUSPEND 50 GRAMS ACTIVATED CHARCOAL IN 400 ML WATER & MIX THORO. ADMIN 5 ML /KG, OR 350 ML FOR AN AVERAGE ADULT.

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===== Physical/Chemical Properties =====

Melt/Freeze Pt:

M.P/F.P Text: 608F, 320C

Spec Gravity: 1.89-1.93

pH: NEUT

Solubility in Water: NEGLIGIBLE

Appearance and Odor: WHITE SOLID, WAXY GREASE, ODORLESS

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===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

NONE REASONABLY FORESEEABLE.

Stability Condition to Avoid: NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products: DECOMP: HEATING ABOVE 260-290C

(500-554F) MAY FORM POTENTIALLY TOXIC FLUORINE COMPOUNDS. DECOMP OCCURS AT INCREASING (SUPERHEATING)

DAT)

Conditions to Avoid Polymerization:DEPOLYMERIZATION MAY OCCUR IN THE PRESENCE OF SOME METAL OXIDES AT TEMPERATURES ABOVE 288C (550F).

===== Disposal Considerations =====

Waste Disposal Methods:TREATMENT, STORAGE, TRANSPORTATION, AND DISPOSAL MUST BE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE/PROVINCIAL, AND LOCAL REGULATIONS. DO NOT FLUSH TO SURFACE WATER OR SANITARY SEWER SYSTEM.

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