

DU PONT E I NEMOURS & CO CHEMICALS & PIGMENTS DEPT -- KRYTOX 240 SERIES
FLUORINATED GREASE- NEW -- 9150-01-311-9771

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

Product ID:KRYTOX 240 SERIES FLUORINATED GREASE- NEW

MSDS Date:05/05/1995

FSC:9150

NIIN:01-311-9771

MSDS Number: CJNMR

=== Responsible Party ===

Company Name:DU PONT E I NEMOURS & CO CHEMICALS & PIGMENTS DEPT

Address:1007 MARKET ST

City:WILMINGTON

State:DE

ZIP:19898

Country:US

Info Phone Num:800-441-7515

Emergency Phone Num:800-441-3637

Resp. Party Other MSDS Num.:DU008138

Preparer's Name:COORDINATOR 800-441-7515

Chemtec Ind/Phone:(800)424-9300

CAGE:23037

=== Contractor Identification ===

Company Name:DU PONT E I NEMOURS & CO CHEMICALS & PIGMENTS DEPT

Address:1007 MARKET ST

Box:City:WILMINGTON

State:DE

ZIP:19898

Country:US

Phone:800-441-7515

CAGE:23037

Company Name:SDB CONSULTANTS LTD

Address:401 WHITNEY AVE SUITE 120

Box:City:GRETNA

Sta

te:LA

ZIP:70056

Country:US

Phone:504-366-9105

Contract Num:SP0450-01-M-LN60

CAGE:0PGK2

Company Name:SDB CONSULTANTS LTD

Address:401 WHITNEY AVE SUITE 120

Box:City:GRETNA

State:LA

ZIP:70056

Country:US

Phone:504-366-9105

Contract Num:SP0450-99-M-B229

CAGE:0PGK2

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

Ingred Name:PERFLUOROALKYLETHER

CAS:60164-51-4

Minimum % Wt:73.

Maximum % Wt:82.

r REC Limits:5 MG /M3,8 HR,R DUST
OSHA PEL:NONE ESTABLISHED
ACGIH TLV:NONE ESTABLISHED

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

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:SKIN CONTACT: MAY CAUSE IRRITATION, DISCOMFORT, RASH. PROLONGED CONTACT MAY CAUSE REDNESS AND INFLAMMATION OF HAIR FOLLICLES WITHOUT SKIN SENSITIZATION. EYE CONTACT: MAY CAUSE IRRITATION, DISCOMFORT, TEARING, BLURRING OF VISION. INHALATION

: FLUORINE COMPOUNDS RELEASED AS DECOMPOSITION

PRODUCTS ABOVE 290C MAY CAUSE LUNG IRRITATION AND PULMONARY EDEMA WHICH REQUIRE MEDICAL TREATMENT. FUMES OR SMOKE FROM OVERHEATED OR BURNING GREASE MAY CAUSE POLYMER FUME FEVER, A TEMPORARY FLU-LIKE ILLNESS ACCOMPANIED BY FEVER, CHILLS, SOMETIMES COUGH, ABOUT 24 HOURS DURATION. REPEATED EPISODES OF POLYMER FUME FEVERMAY CAUSE LUNG DAMAGE.

Explanation of Carcinogenicity:NONE OF THE COMPONENTS PRESENT IN THIS MATERIAL AT

CONCENTRATIONS EQUAL TO OR GREATER THAN 0.1% ARE LISTED BY IARC, NTP, OSHA, OR ACGIH AS A CARCINOGEN.

Effects of Overexposure:SKIN CONTACT: IRRITATION, DISCOMFORT, RASH, REDNESS, INFLAMMATION OF HAIR FOLLICLES. EYE CONTACT: IRRITATION, DISCOMFORT, TEARING, BLURRING OF VISION. INHALATION: LUNG IRRITATION, PULMONARY EDEMA, POL YMER FUME FEVER, FEVER, CHILLS, COUGH, LUNG DAMAGE.

Medical Cond Aggravated by Exposure:N/P.

===== First Aid Measures =====
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First Aid:INHALATION: MOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. SKIN CONTACT: FLUSH WITH WATER. WASH CONTAMINATED CLOTHING BEFOR E REUSE. EYE CONTACT: FLUSH WITH WATER FOR 15 MINUTES. CALL A PHYSICIAN. INGESTION: DO NOT INDUCE VOMITING. GIVE 2 GLASSES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN. NOTES TO PHYSICIAN: ACTIVATED CHARCOAL MIXT

URE MAY BE ADMINISTERED. (50 GRAMS ACTIVATED CHARCOAL IN 400 ML WATER. GIVE 5 ML/KG OR 350 ML FOR AN AVERAGE ADULT.

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

Flash Point Method:PMCC

Flash Point:DOES NOT IGNITE

Extinguishing Media:NON-COMBUSTIBLE. USE MEDIA APPROPRIATE FOR COMBUSTIBLES IN AREA.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS. WEAR FULL PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard:DECOMPOSITION AT FLAME TEMPERATURES MAY

FORM TOXIC FLUORINE COMPOUNDS. AVOID BREATHING DECOMPOSITION PRODUCTS.

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

Spill Release Procedures:USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT DURING CLEAN-UP. REMOVE SOURCES OF HEAT AND FLME. PLACE IN A CONTAINER FOR DISPOSAL.

Neutralizing Agent:N/P.

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

Handling and Storage Precautions:AVOID CONTACT WITH EYES AND SKIN. WASH THOROUGHLY A

FTER HANDLING. KEEP CONTAINERS TIGHTLY CLOSED. DO NOT STORE OR CONSUME FOOD, DRINK, OR TOBACCO IN AREAS WHERE THEY MAY BECOME CONTAMINATED WITH THIS MATERIAL.

Other Precautions:KEEP AWAY FROM HEAT AND FLAMES TO AVOID DECOMPOSITION PRODUCT.

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

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

Protective Gloves:IMPERVIOUS GLOVES

Eye Protection:WEAR SAFETY GLASSES OR COVERALL CHEMICAL SPLASH GOGGLES.

Other Protective Equipment:WHERE THERE IS POTENTIAL FOR SKIN CONTACT HAVE AVAILABLE AND WEAR AS APPROPRIATE, IMPERVIOUS GLOVES, APRON, PANTS, AND JACKET.

Work Hygienic Practices:FLUSH SKIN WITH WATER AFTER CONTACT. WASH CONTAMINATED CLOTHNG BEFORE REUSE

Supplemental Safety and Health

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

HCC:N1

Melt/Freeze Pt:=320.C, 608.F

Spec Gravity:1.89-1.93 @ 24C

pH:NEUTRAL

Solubility in Water:NEGLIGIBLE

Appearance and Odor:WHITE,SOLID, WAXY GREASE, ODORLESS

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

Stability Indicator/Materials to Avoid:YES

NONE REASONABLY FORESEEABLE.

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

MAY FORM POTENTIALLY TOXIC FLUORINE COMPOUNDS. DEPOLYMERIZATION MAY OCCUR IN THE PRESENCE OF SOME METAL OXIDES AT TEMPERATURES ABOVE

(CONTD. SEE "OTHER INFO")

Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Toxicological Information =====

Toxicological Information:PRODUCT CONTAINS A MILD EYE IRRITANT. A SINGLE INHALATION EXPOSURE TO PERFLUOROALKYLETHYER CAUSED NON SPECIFIC EFFECTS SUCH AS RESPIRATORY IRRITATION. TOXIC EFFECTS DESCRIBED IN ANIMALS EXPOSED TO DECOMPOSITION PRODUCTS OF PERFLUOROALKYLETHYER FORMED ABOVE 260 C INCLUDE LUNG IRRITATION,

IRREGULAR RESPIRATION, TREMORS, INCREASED LIVER WEIGHT. PULMONARY EDEMA AND DEATH OCCURRED IN RATS EXPOSED TO DECOMPOSITION PRODUCTS FORMED AROUND 290 C. SINGLE INHALATION EXPOSURE TO PTFE CAUSED IRRITATION OF LUNGS. REPEATED INGESTION EXPOSURE CAUSED NO SIGNIFICANT TOXICOLOGICAL EFFECTS. LONG-TERM INGESTION EXPOSURE ALTERED (CONTD. SEE "ECOLOGICAL")

===== Ecological Information =====

Ecological:N/P (CONTD. FROM "TOXICOLOGICAL") WHITE BLOOD CELL COUNT.

ANIMAL DATA: PERFLUOROALKYLETHYER: INHALATION, RATS, ALC: 19.54 MG/L 4 HR ; SKIN ABSORPTION, RATS,ALD: >17,000 MG/KG; ORAL, RATS, ALD: >25,000 MG/KG. APPLICABLE EXPOSURE LIMITS: PTFE: PEL (OSHA): NONE ESTABLISHED; TLV (ACGIH): NONE ESTABLISHED; AEL (DUPONT): 10 MG/M3, 8 HR, TWA, TOTAL DUST; 5 MG/M3, 8 HR TWA, RESPIRABLE DUST. AEL IS DUPONT 'S ACCEPTABLE EXPOSURE LIMIT. WHERE GOVERNMENTALLY IMPOSED OCCUPATIONAL EXPOSURE LIMITS ARE LOWER THAN THE AEL ARE

IN EFFECT,
SUCH LIMITS SHALL TAKE PRECEDANCE.

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

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

===== MSDS Transport Information =====

Transport Information:DOT: NOT REGULATED. SHIPPING CONTAINERS:2, 8 OZ.
POLYETHYLENE TU
BES. 1 LB. DOUBLE WALL JARS (POLYPROPYLENE INNER;
POLYSTYRENE OUTER). 5 - 15 LB. POLYSTYRENE PAILS. 50 - 75 LBS.
WHITE HIGH DENSITY POL YETHYLENE PAILS.

===== Regulatory Information =====

SARA Title III Information:TITLE I I I HAZARD CLASSIFICATIONS SECTIONS
311, 312: ACUTE: YES; CHRONIC: NO; FIRE: NO; REACTIVITY: NO;
PRESSURE: NO.
Federal Regulatory Information:TSCA INVENTORY STATUS: REPORTED /
INCLUDED.

===== Other Inf
ormation =====

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