

MATERIAL SAFETY DATA SHEET

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MSDS Number: GPL205 ;

I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: KRYTOX GREASE SYRINGE
HMIS Ratings:
 Health: Slight(1)
 Flammability: Minimal(0)
 Instability/Reactivity: Minimal(0)
NFPA Ratings:
 Health: Slight(1)
 Flammability: Minimal(0)
 Instability/Reactivity: Minimal(0)

Other: PERSONNEL PROTECTION RATING DEPENDS ON USE CONDITIONS.

II. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients	C.A.S. Number	% By Weight	ACGIH TLV TWA/STEL	OSHA PEL TWA/STEL	Other TWA/STEL	LD50	LC50
PERFLUOROALKYLETHER	60164-51-4	73 - 82					
Notes							
PTFE	9002-84-0	18 - 27	NE	NE	DUPONT: 10 MG/M ³ , 8 HR TD; 5 MG/M ³ , 8 HR RD		
Notes	AEL IS DUPONT'S ACCEPTABLE EXPOSURE LIMIT. WHERE GOVERNMENTALLY IMPOSED OCCUPATIONAL EXPOSURE LIMITS WHICH ARE LOWER THAN THE AEL ARE IN EFFECT, SUCH LIMITS SHALL TAKE PRECEDENCE.						
Other:	TD: TOTAL DUST RD: RESPIRABLE DUST						

III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

Eyes: EYE CONTACT MAY CAUSE EYE IRRITATION WITH DISCOMFORT, TEARING OR BLURRING OF VISION.

Skin: SKIN CONTACT MAY CAUSE SKIN IRRITATION WITH DISCOMFORT OR RASH. PROLONGED SKIN CONTACT MAY CAUSE REDNESS AND INFLAMMATION OF THE HAIR FOLLICLES WITHOUT SKIN SENSITIZATION.

Inhalation: INHALATION OF FLUORINE COMPOUNDS RELEASED AS DECOMPOSITION PRODUCTS ABOVE 290°C (554°F) MAY CAUSE LUNG IRRITATION AND PULMONARY EDEMA WHICH REQUIRE MEDICAL TREATMENT. INHALATION OF FUMES OR SMOKE FROM OVERHEATED OR BURNING GREASE MAY CAUSE POLYMER FUME FEVER, A TEMPORARY FLU-LIKE ILLNESS ACCOMPANIED BY FEVER, CHILLS, AND SOMETIMES COUGH, OF APPROXIMATELY 24 HOURS DURATION. REPEATED EPISODES OF POLYMER FUME FEVER MAY CAUSE LUNG DAMAGE.

Medical Conditions

Aggravated by Exposure:

Other: CARCINOGENICITY INFO: NONE OF THE COMPOUNDS PRESENT IN THIS

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

IV. FIRST AID MEASURES

Eyes:	IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN.
Skin:	FLUSH SKIN WITH WATER AFTER CONTACT. WASH CONTAMINATED CLOTHING BEFORE REUSE.
Ingestion:	IF SWALLOWED, DO NOT INDUCE VOMITING. IMMEDIATELY GIVE TWO GLASSES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN.
Inhalation:	IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULET, GIVE OXYGEN. CALL A PHYSICIAN.
Other:	NOTE TO PHYSICIAN: ACTIVATED CHARCOAL MIXTURE MAY BE ADMINISTERED. TO PREPARE ACTIVATED CHARCOAL MIXTURE, SUSPEND 50 GRAMS ACTIVATED CHARCOAL IN 400 ML WATER AND MIX THOROUGHLY. ADMINISTER 5 ML/KG, OR 350 ML FOR AN AVERAGE ADULT.

V. FIRE FIGHTING MEASURES

Flash Point:	DOES NOT IGNITE
Test Method:	PMCC
Lower Flammability Limit:	NON COMBUSTIBLE
Extinguishing Agents:	USE MEDIA APPROPRIATE FOR SURROUNDING MATERIAL.
Fire Fighting Procedures:	WEAR SELF-CONTAINED BREATHING APPARATUS. WEAR FULL PROTECTIVE EQUIPMENT. DECOMPOSITION AT FLAME TEMPERATURES MAY FORM TOXIC FLUORINE COMPOUNDS. AVOID BREATHING DECOMPOSITION PRODUCTS.

VI. ACCIDENTAL RELEASE MEASURES

Containment/Cleanup:	SAFEGUARDS (PERSONNEL): 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. REMOVE SOURCE OF HEAT AND FLAME.
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VII. HANDLING AND STORAGE

Other:	HANDLING: AVOID CONTACT WITH EYES. AVOID CONTACT WITH SKIN. WASH THOROUGHLY AFTER HANDLING. DO NOT STORE OR CONSUME FOOD, DRINK OR TOBACCO IN AREAS WHERE THEY MAY BECOME CONTAMINATED WITH THIS MATERIAL. STORAGE 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 PRODUCTS.
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VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes:	WEAR SAFETY GLASSES OR COVERALL CHEMICAL SPLASH GOGGLES.
Skin:	PROTECTIVE CLOTHING: WHERE THERE IS POTENTIAL FOR SKIN CONTACT HAVE AVAILABLE AND WEAR AS APPROPRIATE, IMPERVIOUS GLOVES, APRON, PANTS, AND JACKET.
Respiratory:	WHERE THE POTENTIAL EXISTS FOR EXPOSURE TO DECOMPOSITION PRODUCTS DUE TO HEATING OR ELEVATED TEMPERATURES, WEAR NIOSH/MSHA APPROVED RESPIRATORY PROTECTION AS APPROPRIATE.
Engineering:	KEEP CONTAINER TIGHTLY CLOSED. KEEP AWAY FROM HEAT AND FLAMES.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	WHITE SOLID, WAXY GREASE
pH:	NEUTRAL
Solubility in Water:	NEGLIGIBLE
Specific Gravity:	1.89–1.93 @24°C (75°F)
Other:	MELTING POINT: 320°C (608°F)

X. STABILITY AND REACTIVITY

Stability: STABLE

Hazardous Polymerization: WILL NOT OCCUR.

Hazardous Decomposition Products: HEATING ABOVE 260–290°C (500–554°F) MAY FORM POTENTIALLY TOXIC FLUORINE COMPOUNDS. DEPOLYMERIZATION MAY OCCUR IN THE PRESENCE OF SOME METAL OXIDES AT TEMPERATURES ABOVE 288°C (550°F). DECOMPOSITION OCCURS AT INCREASING RATES AS TEMPERATURE IS RAISED ABOVE 355°C (670°F).

Incompatible Products: NONE REASONABLY FORESEEABLE.

XI. TOXICOLOGICAL INFORMATION

Other: ANIMAL DATA:
 PERFLUOROALKYLETHER:
 INHALATION 4 HOURS ALC: 19.54 MG/L IN RATS.
 SKIN ABSORPTION ALD: >17,000 MG/KG IN RATS.
 ORAL ALD: >25,000 MG/KG IN RATS.THE PRODUCT CONTAINS A MILD EYE IRRITANT. A SINGLE INHALATION EXPOSURE TO PERFLUOROALKYLETHER CAUSED NONSPECIFIC EFFECTS SUCH AS RESPIRATORY IRRITATION. TOXIC EFFECTS DESCRIBED IN ANIMALS EXPOSED TO DECOMPOSITION PRODUCTS OF PERFLUOROALKYLETHER FORMED ABOVE 260°C (500°F) INCLUDE LUNG IRRITATION, IRREGULAR RESPIRATION, TREMORS AND INCREASED LIVER WEIGHT. PULMONARY EDEMA AND DEATH OCCURRED IN RATS EXPOSED TO THE DECOMPOSITION PRODUCTS OF PERFLUOROALKYLETHER FORMED AT AROUND 290°C (554°F). A SINGLE INHALATION EXPOSURE TO PTFE CAUSED IRRITATION OF THE LUNGS. A REPEATED INGESTION EXPOSURE CAUSED NO SIGNIFICANT TOXICOLOGICAL EFFECTS. LONG–TERM INGESTION EXPOSURE CAUSED ALTERED WHITE BLOOD CELL COUNT.

XII. ECOLOGICAL INFORMATION

Ecotoxicity:

XIII. DISPOSAL CONSIDERATIONS

Disposal Method: 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.

XIV. TRANSPORT INFORMATION

D.O.T. Shipping Name: NOT REGULATED.

XV. REGULATORY INFORMATION

TSCA Status: REPORTED/INCLUDED.

EPA Sara Title III Chemical TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312:

Listings: ACUTE: YES
CHRONIC: NO
FIRE: NO
REACTIVITY: NO
PRESSURE: NO

**Supplemental State
Compliance Information:**

XVI. OTHER INFORMATION

WARRANTY INFORMATION

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.