

Du Pont Material Safety Data Sheet

R+D

MATERIAL IDENTIFICATION

NUMBER : 5635APP
 NAME : "KRYTOX"* GPL 10X FLUORINATED OILS
 GRADE : X INDICATES BASE OIL VISCOSITY GRADE
 CHEMICAL FAMILY : PERFLUOROALKYLPOLYETHERS
 TSCA INVENTORY STATUS : Reported/Included
 NPCA-HMIS RATING : Health: 1 Flammability: 0 Reactivity: 0
 Personal Protection rating to be supplied by user depending on use conditions.
 MANUFACTURER/DISTRIBUTOR: E.I. du Pont de Nemours & Co., Inc.
 1007 Market Street
 Wilmington, DE 19898
 PRODUCT INFORMATION PHONE : 1-(800)441-7515
 TRANSPORTATION EMERGENCY PHONE : 1-(800)424-9300
 MEDICAL EMERGENCY PHONE : 1-(800)441-3637

COMPONENTS

Material	CAS Number	%
FLUORINE END-CAPPED HOMOPOLYMERS OF HEXAFLUOROPROPYLENE EPOXIDE	60164-51-4	100

PHYSICAL DATA

Odor : Odorless
 Form : Liquid, Viscous oil
 Color : Colorless
 Pour Point: -57 to -37.7 C., pH Information: Neutral,
 Solubility in H2O: Negligible, Spec. Grav.: 1.86-1.91 @ 24C.

HAZARDOUS REACTIVITY

Instability : Stable.
 Incompatibility : None reasonably foreseeable.
 Decomposition : Decomposition: See Health Hazard Information. See
 Additional Information and References.
 Polymerization : Polymerization will not occur.

FIRE AND EXPLOSION DATA

Method : PMCC
 Does not ignite.

FIRE AND EXPLOSION HAZARDS

Non-combustible

(FIRE AND EXPLOSION DATA - CONTINUED)

EXTINGUISHING MEDIA

As appropriate for combustibles in area.

SPECIAL FIRE FIGHTING INSTRUCTIONS

Evacuate personnel to a safe area.
Decomposition at flame temperatures may form toxic fluorine compounds. Avoid breathing decomposition products.

HEALTH HAZARD INFORMATION

May cause mild eye irritation and mild skin irritation.
Inhalation of smoke from tobacco contaminated with this compound may cause throat irritation, cough and tightness in the chest.

The known physiological effects of the separate ingredients of these materials indicate a very low order of toxicity in animals by skin contact (ALD >17,000 mg./kg., rabbits); by ingestion (ALD >25,000 mg./kg., rats); and, at room temperature, by inhalation (4 hour ALC 19.54 mg./l., rats). Decomposition products formed at temperatures above 260 deg. C. (500 deg. F.) are irritating to lungs of animals. Pulmonary edema and death occurred in rats exposed to decomposition products formed at around 290 deg. C. (554 deg. F.).

Effects in humans from overexposure by inhalation of the decomposition products may include lung irritation. Inhalation of decomposition products formed at around 290 deg. C. (554 deg. F.) may require treatment of lung irritation for fluorine compounds which can cause delayed pulmonary edema. Prolonged skin contact may cause redness and inflammation of the hair follicles without skin sensitization.

Carcinogenicity

None of the components in this chemical is listed by IARC, NTP, or OSHA as a carcinogen.

Exposure Limits for "KRYTOX"* GPL 10X FLUORINATED OILS

TLV * (ACGIH) : None Established
PEL (OSHA) : None Established

* TLV is a registered trademark.

Safety Precautions

(HEALTH HAZARD INFORMATION - CONTINUED)

Avoid contact with eyes. Avoid contact with skin. Wash thoroughly after handling.

FIRST AID

INHALATION - If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen, and call a physician.

SKIN CONTACT - Flush skin with water after prolonged or repeated contact.

EYE CONTACT - In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION - If swallowed, do not induce vomiting. Immediately give two glasses of water, or activated charcoal slurry. Never give anything by mouth to an unconscious person.

INSTRUCTIONS TO PHYSICIANS:

To prepare activated charcoal slurry, suspend 50 g activated charcoal in 400 ml water in plastic bottle and shake well. Administer 5 ml/kg, or 350 ml for an average adult.

PROTECTION INFORMATION

Generally Applicable Control Measures and Procedures

Keep container tightly closed. Do not consume food, drink or tobacco in the areas where they may become contaminated with this material.
Provide adequate ventilation.
Keep away from heat and flames.

Personal Protective Equipment

Eye/Face : Goggles or glasses with side shields.
Protective Gloves : Impermeable

DISPOSAL INFORMATION

Spill, Leak, or Release

NOTE: Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up.
Soak up with sawdust, sand, oil dry or other absorbent material.

(DISPOSAL INFORMATION - CONTINUED)

Remove source of heat and flame. At 260-290 deg. C. forms potentially toxic fluorine compounds. Avoid breathing decomposition products. Place in container for disposal.

Final Disposal

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State, and Local regulations. Recover nonusable free liquid and dispose of in an approved and permitted incinerator. Do not flush to surface water or sanitary sewer system.

ADDITIONAL INFORMATION

Proper Shipping Name :
Not regulated.

Shipping Containers
SEE ADD'L INFO AND REFERENCES

STORAGE CONDITIONS

Keep container tightly closed. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

III HAZARD CLASSIFICATIONS

Flammable: Yes
Toxic: No
Irritant: No
Reactivity: No
Pressure: No

ADDITIONAL INFORMATION AND REFERENCES

COMPOSITION

May depolymerize in the presence of some metal oxides at above 288 deg C (550 deg F). Decomposition occurs at increasing rates at temperature is raised above 355 deg C (70 deg F).

SHIPPING CONTAINERS

1 lb. polyethylene or glass bottles
8, 16 lb. polyethylene bottles
gal. polyethylene drum

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KRYTOX Fluorinated Oils are made only by Du Pont.