

TA Instruments Inc.

TA Instruments Inc.
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MATERIAL SAFETY DATA SHEET

FOR CHEMICAL EMERGENCY
24 Hours per Day 7 Days per Week
Call CHEMTREC 800-424-9300
Outside N. America 703-527-3887 (collect)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION:

Product Name: Krytox
Date of Prep: January 8, 2010

MSDS #: 901162.001
Revision: A

2. COMPOSITION/INFORMATION ON INGREDIENTS:

CHEMICAL INGREDIENT NAME	CAS NUMBER	EC NUMBER	% BY WT.	EXPOSURE LIMITS		EU LABEL
				OSHA	ACGIH	HAZARD SYMBOL
Perfluoroalkylether	60164-51-4		70	NE	NE	None
Polytetrafluoroethylene	9002-84-0		30	NE	NE	None

Notes:

3. HAZARDS IDENTIFICATION: 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. Eye contact may cause eye irritation with discomfort, tearing or blurring of vision. Inhalation of fluorine compounds released as decomposition products at around 290° C (554° F) may cause lung irritation and pulmonary edema which require medical treatment. Inhalation of burning material or smoke from cigarettes or tobacco contaminated with this product may cause polymer fume fever. Polymer fume fever is a flu-like illness with fever, chills and sometimes cough, which occurs several hours after exposure and subsides within 24-48 hours even in the absence of treatment. Polymer fume fever does not cause permanent injury and the effects are not cumulative.

4. FIRST AID MEASURES:

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Skin Contact: Flush skin with water after contact. Wash contaminated clothing before reuse.

Eye Contact: In case of 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 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

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.

5. FIRE-FIGHTING MEASURES:

Flammable Properties: Does not ignite.

Extinguishing Media: As appropriate for combustibles in area.

Unique Aspects Contributing To a Fire:

Special Fire Fighting Procedures: Wear self contained breathing apparatus. Wear full protective equipment.

Note: Decomposition at flame temperatures may form toxic fluorine compounds. Avoid breathing decomposition products.

6. ACCIDENTAL RELEASE MEASURES: Place in container for disposal. Remove sources of heat and flame.

7. HANDLING AND STORAGE: 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. Keep container tightly closed. Keep away from heat and flames to avoid decomposition products.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Handle in accordance with good laboratory practices.

Respiratory Protection: Wear NIOSH approved respiratory protection as appropriate.

Eye Protection: Wear safety glasses or coverall chemical splash goggles.

Skin Protection: Where there is potential for skin contact have available and wear as appropriate, impervious gloves, apron, pants and jacket.

Engineering Controls: Keep container tightly closed. Keep away from heat and flames.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: white solid, waxy grease

Physical State: grease	Flash Point: NE	Vapor Pressure: NE
Odor: odorless	Explosion Limits: NE	Vapor Density (air=1): NE
pH: neutral	Boiling Point: NE	Solubility in Water: negligible
Specific Gravity: 1.89-1.93 @ 24°C	Melting Point: 320° C (608° F)	Other:

10. STABILITY AND REACTIVITY:Hazardous Polymerization Will Not Occur May Occur

Stability: Stable

Hazardous Decomposition/Combustion Products:

Heating above 260-290° C (500-554° F) may form potentially toxic fluorine compounds.

Conditions & Materials to Avoid:

Depolymerization may occur in the presence of some metal oxides at temperatures above 288° C (550° F).

11. TOXICOLOGICAL INFORMATION:

Primary Route(s) of Exposure Under Normal Use: NE

Target Organ(s): NE

Acute Effects: NE

Chronic Effects: NE

Other Information:

12. ECOLOGICAL INFORMATION: NE**13. DISPOSAL CONSIDERATIONS:** 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.**14. TRANSPORT INFORMATION:**

U.S. DOT: Shipping Name: Not regulated.
 Hazard Class: NE
 UN/NA #: NE
 Packing Group #: NE

IATA/ICAO: NE**15. REGULATORY INFORMATION: NE****EU Risk/Safety Phrases:** NE**U.S. TOSCA:** NE**Canada:** NE**16. OTHER INFORMATION:****U.S. EPA SARA**313 ChemicalsCERCLA RQ**National Fire Protection Association Rating**

4= Severe Hazard	HEALTH	1
3= Serious Hazard	FLAMMABILITY	0
2= Moderate Hazard	REACTIVITY	0
1= Slight Hazard	OTHER	
0= Minimal Hazard		

Notes: Not Established (NE) means a value has not been set or there is no information available. Not Applicable (NA) means that the topic is not pertinent.

The information contained herein has been compiled from data presented in various technical sources believed to be accurate. Waters makes no warranties and assumes no liability in connection with the use of this information. It is the user's responsibility to determine the suitability of this information and to assure the adoption of necessary precautions.