Krytox[®] XP 2C5

Version 2.1

Revision Date 07/30/2010

Ref. 130000027530

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name Tradename/Synonym	:	Krytox [®] XP 2C5 KDP 4848, AUT 2C45, XP 2C4
MSDS Number	:	13000027530
Product Use	:	Lubricant
Manufacturer	:	DuPont 1007 Market Street Wilmington, DE 19898
Product Information Medical Emergency Transport Emergency	: : :	1-800-441-7515 (outside the U.S. 1-302-774-1000) 1-800-441-3637 (outside the U.S. 1-302-774-1139) CHEMTREC: 1-800-424-9300 (outside the U.S. 1-703-527-3887)
Other information	:	professional use

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. The thermal decomposition vapours of fluorinated polymers may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco. Repeated episodes of polymer fume fever may result in persistent lung effects.

Potential Health Effects Skin	:	May cause allergic skin reaction. Itching, Rash, Swelling.
Eyes	:	May cause eye irritation. Discomfort, tearing, Blurred vision.

Carcinogenicity

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS-No.	Concentration
	70 - 80 %
	10 - 20 %
10043-11-5	5 - 10 %
	2 - 3 %

SECTION 4. FIRST AID MEASUR	ES
Skin contact	: Wash off with soap and plenty of water.
Eye contact	: Rinse with plenty of water. If eye irritation persists, consult a specialist.
Inhalation	: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.
Ingestion	: Never give anything by mouth to an unconscious person. DO NOT induce vomiting unless directed to do so by a physician or poison control center.
General advice	: When symptoms persist or in all cases of doubt seek medical advice.
SECTION 5. FIRE-FIGHTING MEA	SURES
Flammable Properties	

Flash point : does not flash

Thermal decomposition : 300 °C (572 °F)

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Fire and Explosion Hazard	: In fire conditions, toxic decomposition products may be formed. (see also section 10)
Suitable extinguishing media	 The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Firefighting Instructions	 Wear self-contained breathing apparatus (SCBA). Wear suitable protective equipment. Standard procedure for chemical fires.
SECTION 6. ACCIDENTAL RELEA	ASE MEASURES
	G MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean- AL PROTECTIVE EQUIPMENT during clean-up.
Spill Cleanup	: Shovel into suitable container for disposal.
Accidental Release Measures	: Prevent material from entering sewers, waterways, or low areas.
SECTION 7. HANDLING AND STO	DRAGE

Handling (Personnel)	: Avoid breathing vapors from overheated material. Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling. General industrial hygiene practice.
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Storage	: No special storage conditions required. Keep container closed to prevent
	contamination.
	No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

: In the event that the polymer is heated above 300°C (572 F) local ventilation should be used to avoid exposure to fumes.

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Personal protective equipmen Respiratory protection	: No personal respiratory protective equipment normally required. In the case of hazardous fumes caused by overheating, wear self-contained breathing
Hand protection	apparatus. : Additional protection: Impervious gloves
Eye protection	: Safety glasses
Skin and body protection	 Preventive skin protection No PPE is specified however, avoid contact with skin, eyes, and clothing. Preventive skin protection
Exposure Guidelines Exposure Limit Values None established.	
CTION 9. PHYSICAL AND CH	EMICAL PROPERTIES
Form Color Odor pH Specific Gravity Water solubility	 paste white none neutral 1.9 insoluble
CTION 10. STABILITY AND R	ΕΑCΤΙVITY
Stability	: Stable under recommended storage conditions.
Conditions to avoid	: Temperature 300 °C (572 °F)
Hazardous decomposition products	: Hazardous thermal decomposition products: Fluorinated compounds
CTION 11. TOXICOLOGICAL	
Krytox [®] XP 2C5 Oral LD50	: > 5,000 mg/kg , rat

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Skin irritation	: slight irritation, rabbit
Eye irritation	: slight irritation, rabbit
Sensitisation	: Causes sensitization., guinea pig
Further information	: Information given is based on data on the components and the toxicology of similar products.
SECTION 12. ECOLOGICAL INFORMA Aquatic Toxicity Perfluoropolyether 96 h LC50	 Concorhynchus mykiss (rainbow trout) > 1,000 mg/l The substance is a polymer and is not expected to produce toxic effects.
48 h EC50	: Daphnia magna (Water flea) > 1,000 mg/l
PTFE	: The substance is a polymer and is not expected to produce toxic effects.
Environmental Fate Krytox [®] XP 2C5 Biodegradability	: Not readily biodegradable.
Additional ecological information	: No data is available on the product itself.
Environmental Hazards : [n accordance with local and national regulations. Dispose of container properly.
	f recycling is not practicable, dispose of in compliance with local regulations.
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SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

TSCA Status

: On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Restrictions for use : Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy of the DuPont POLICY Regarding Medical Applications H-50103-3 and DuPont CAUTION Regarding Medical Applications H-50102-3.

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Contact person : MSDS Coordinator, DuPont Chemicals and Fluoroproducts, Wilmington, DE 19898, (800) 441-7515

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Significant change from previous version is denoted with a double bar.

