

Krytox® PFPE Oils

Version 3.0

Revision Date 29.11.2010 Ref.150000000934

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

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name : Krytox® PFPE Oils

Types : GPL: 100, 101, 102, 103, 104, 105, 106, 107, 107-500

VPF: 1506, 1514, 1525, 1525S, 1531, 1531E, 1618, 1645,

16256, 16350

CBF: 100A, 100B, 103B

GBO: 14, 25

XHT-: 500, 750, 1000 FG: 10, 12, 15, 40, 45

AUT 1045

4442, 4402, TFO, TLC, NBF140

TLF 8996

Relevant identified uses of the substance or mixture and uses advised against

Use of the : Lubricant

Substance/Mixture

Details of the supplier of the safety data sheet

Company : Du Pont de Nemours (Nederland) B.V.

Baanhoekweg 22 NL-3313 LA Dordrecht

INL-3313 LA DOIGIECI

Netherlands

Telephone : +31-78-630.1011

Telefax : +31-78-630.1181

E-mail address : sds-support@che.dupont.com

Emergency telephone number

Emergency telephone

number

: +44-(0)8456-006.640

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

Label elements

no data available

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Other hazards

The product as such is not hazardous.

Inhalation of decomposition products from overheating may cause lung irritation or shortness of breath.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Chemical Name	CAS-No.	EC-No.	Registration number	Classification according Directive 67/548/EEC	Classification according Regulation 1272/2008 (CLP)	Concentration [%]
Perfluoroalkyl ether						100

Mixtures

not applicable

4. FIRST AID MEASURES

Description of first aid measures

General advice : When symptoms persist or in all cases of doubt seek medical

advice.

Inhalation : Move to fresh air in case of accidental inhalation of fumes from

overheating or combustion.

Skin contact : Wash with water and soap as a precaution.

Eye contact : Rinse with plenty of water. If eye irritation persists, consult a

specialist.

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.

Most important symptoms and effects, both acute and delayed

Symptoms : Irritation Shortness of breath

Indication of any immediate medical attention and special treatment needed

no data available

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media : The product itself does not burn.

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

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Special hazards arising from the substance or mixture

Specific hazards during fire

fighting

: In fire conditions, toxic decomposition products may be

formed., (see also section 10)

Advice for firefighters

for fire-fighters

Special protective equipment : Wear self-contained breathing apparatus (SCBA)., Wear

suitable protective equipment.

Further information : Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

not applicable

Environmental precautions

Environmental precautions : Prevent material from entering sewers, waterways, or low areas.

Methods and materials for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder,

universal binder, sawdust).

Reference to other sections

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling : Avoid breathing vapors from overheated material.

Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

: No special storage conditions required. Keep container closed to prevent

contamination.

Other data : No decomposition if stored and applied as directed.

Specific end uses

no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure controls

Engineering measures : In the event that the polymer is heated above 350 °C (662 °F), local ventilation

should be used to avoid exposure to fumes.

Eye protection : Safety glasses

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Hand protection : No particular glove type is recommended, but nitrile may used.

Skin and body protection : No PPE is specified however, avoid contact with skin, eyes, and clothing.

Preventive skin protection

Hygiene measures : General industrial hygiene practice.

Respiratory protection : No personal respiratory protective equipment normally required. In the case of

hazardous fumes caused by overheating, wear self-contained breathing

apparatus.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form : viscous liquid

Colour : colourless

Odour : none

pH : neutral

Pour point : -55 - -15 ℃

Flash point : , Method: Pensky-Martens closed cup - PMCC does not flash

Thermal decomposition : ca. 350 ℃,

Relative density : ca. 1,86 - 1,91 at 24 °C

Water solubility : , insoluble

Other information no data available

10. STABILITY AND REACTIVITY

Reactivity no data available

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: Decomposes on heating.

Conditions to avoid : Decomposition temperature : 350 °C

Incompatible materials no data available

Hazardous decomposition

products

: Hazardous thermal decomposition products:

: Fluorinated compounds

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11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute oral toxicity

Perfluoroalkylether : LD50 / rat : > 37 400 mg/kg

Acute inhalation toxicity

Perfluoroalkylether : ALC / rat : ca. > 19,54 mg/l

Acute dermal toxicity

Perfluoroalkylether : ALD / rabbit ca. : > 17 000 mg/kg

Skin irritation

• Perfluoroalkylether : rabbit

Classification: Not classified as irritant

Result: slight irritation

Eye irritation

Perfluoroalkylether : rabbit

Classification: Not classified as irritant

Result: slight irritation

Sensitisation

• Perfluoroalkylether : human

Classification: Not a skin sensitizer.

Result: Patch test on human volunteers did not demonstrate sensitization

properties.

Method: Modified Draize Test

Mutagenicity assessment

• Perfluoroalkylether : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity assessment

• Perfluoroalkylether : no data available

Perfluoroalkylether : Not classifiable as a human carcinogen.

Toxicity to reproduction assessment

Perfluoroalkylether : no data available

Perfluoroalkylether : No toxicity to reproduction

Assessment teratogenicity

• Perfluoroalkylether : no data available



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12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish

Perfluoroalkylether
LC50 / 96 h / Oncorhynchus mykiss (rainbow trout): > 1 000 mg/l

The substance is a polymer and is not expected to produce toxic effects.

Toxicity to aquatic invertebrates

Perfluoroalkylether : EC50 / 48 h / Daphnia magna (Water flea): > 1 000 mg/l

Persistence and degradability

Biodegradability : According to the results of tests of biodegradability this product is not readily

biodegradable.

Bioaccumulative potential

Bioaccumulation : no data available

Mobility in soil

Mobility in soil : no data available

Results of PBT and vPvB assessment

PBT and vPvB assessment : no data available

Other adverse effects

Additional ecological

information

: no data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product : In accordance with local and national regulations.

Contaminated packaging : Dispose of container properly. If recycling is not practicable, dispose of in

compliance with local regulations.

14. TRANSPORT INFORMATION

Further information : Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

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Chemical Safety Assessment

no data available

16. OTHER INFORMATION

Restrictions on 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.

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

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