## Krytox<sup>™</sup> TS4



Versi 4.0	on	Revision Date: 05/16/2018	-	0S Number: 53013-00032	Date of last issue: 12/05/2017 Date of first issue: 02/27/2017
SECT	FION 1.	IDENTIFICATION			
F	Product	name	:	Krytox™ TS4	
F	Product	code	:	D15437670	
ę	SDS-Id	entcode	:	130000142909	
I	Manufa	cturer or supplier's (	deta	iils	
(	Compa	ny name of supplier	:	The Chemours Co	ompany FC, LLC
I	Address	5	:	1007 Market Stree Wilmington, DE 1	et 9899 United States of America (USA)
-	Telepho	one	:	1-844-773-CHEM	(outside the U.S. 1-302-773-1000)
E	Emerge	ency telephone	:		cy: 1-866-595-1473 (outside the U.S. 1-302- sport emergency: +1-800-424-9300 (outside 27-3887)
I	Recom	mended use of the c	hen	nical and restriction	ons on use
F	Recom	mended use	:	Lubricant	
F	Restrict	ions on use	:	tions involving imp internal body fluid written agreemen	lsers only. ell Chemours™ materials in medical applica- blantation in the human body or contact with s or tissues unless agreed to by Seller in a t covering such use. For further information, ur Chemours representative.

### **SECTION 2. HAZARDS IDENTIFICATION**

### GHS classification in accordance with 29 CFR 1910.1200

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

## Other hazards

The thermal decomposition vapors of fluorinated plastics may cause polymer fume fever with flulike symptoms in humans, especially when smoking contaminated tobacco.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

No hazardous ingredients



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SECTION	4. FIRST AID MEASUR	ES		
lf inha	aled	:	If inhaled, remove Get medical atter	e to fresh air. ntion if symptoms occur.
In cas	se of skin contact	:		and soap as a precaution. ntion if symptoms occur.
In cas	se of eye contact	:		vater as a precaution. ntion if irritation develops and persists.
lf swa	allowed	:	Get medical atter	NOT induce vomiting. ntion if symptoms occur. oughly with water.
	important symptoms effects, both acute and red	:	Irritation Lung edema Eye contact may Blurred vision Discomfort Lachrymation	rovoke the following symptoms: provoke the following symptoms
Prote	ction of first-aiders	:	No special preca	utions are necessary for first aid responders.
Notes	s to physician	:	Treat symptomat	ically and supportively.
SECTION	5. FIRE-FIGHTING ME	ASL	JRES	
Suita	ble extinguishing media	:	Not applicable Will not burn	
Unsu media	itable extinguishing a	:	Not applicable Will not burn	
Spec fightir	ific hazards during fire ng	:	Exposure to com	bustion products may be a hazard to health.
Haza ucts	rdous combustion prod-	:	Hydrogen fluoride carbonyl fluoride potentially toxic fl aerosolized partic Carbon oxides	uorinated compounds
Spec ods	ific extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to d
Speed	ial protoctivo oquipmont	_	Manu and an atal	ad broathing apparatus for firefighting if

Special protective equipment : Wear self-contained breathing apparatus for firefighting if



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for fire	e-fighters		necessary. Use personal p	rotective equipment.
SECTION	6. ACCIDENTAL RELE	AS	E MEASURES	
tive e	onal precautions, protec- quipment and emer- / procedures	:	Follow safe har equipment reco	dling advice and personal protective mmendations.
Envir	onmental precautions	:	Prevent further Retain and disp	he environment must be avoided. leakage or spillage if safe to do so. ose of contaminated wash water. s should be advised if significant spillages ained.
	ods and materials for inment and cleaning up	:	For large spills, containment to can be pumped container. Clean up remai absorbent. Local or nationa disposal of this employed in the determine whic Sections 13 and	ert absorbent material. provide diking or other appropriate keep material from spreading. If diked material , store recovered material in appropriate ning materials from spill with suitable al regulations may apply to releases and material, as well as those materials and items e cleanup of releases. You will need to h regulations are applicable. d 15 of this SDS provide information regarding national requirements.

## SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labeled containers. Store in accordance with the particular national regulations.
Materials to avoid	:	No special restrictions on storage with other products.
Further information on stor- age stability	:	No decomposition if stored and applied as directed.



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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

### Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Hydrofluoric acid	7664-39-3	TWA	3 ppm 2.5 mg/m <sup>3</sup>	NIOSH REL
		С	6 ppm 5 mg/m <sup>3</sup>	NIOSH REL
		TWA	3 ppm	OSHA Z-2
		TWA	0.5 ppm (Fluorine)	ACGIH
		С	2 ppm (Fluorine)	ACGIH
Carbonyl difluoride	353-50-4	TWA	2 ppm	ACGIH
		STEL	5 ppm	ACGIH
		ST	5 ppm 15 mg/m³	NIOSH REL
		TWA	2 ppm 5 mg/m <sup>3</sup>	NIOSH REL
Carbon dioxide	124-38-9	TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH
		TWA	5,000 ppm 9,000 mg/m <sup>3</sup>	OSHA Z-1
		TWA	5,000 ppm 9,000 mg/m <sup>3</sup>	NIOSH REL
		ST	30,000 ppm 54,000 mg/m <sup>3</sup>	NIOSH REL
Carbon monoxide	630-08-0	TWA	25 ppm	ACGIH
		TWA	35 ppm 40 mg/m <sup>3</sup>	NIOSH REL
		С	200 ppm 229 mg/m <sup>3</sup>	NIOSH REL
		TWA	50 ppm 55 mg/m <sup>3</sup>	OSHA Z-1

**Engineering measures** 

Processing may form hazardous compounds (see section 10).

Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

### Personal protective equipment

:

:

Respiratory protection

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are



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			Follow OSHA res use NIOSH/MSH, by air purifying re hazardous chemi supplied respirato release, exposure	riate respiratory protection should be worn. pirator regulations (29 CFR 1910.134) and A approved respirators. Protection provided spirators against exposure to any cal is limited. Use a positive pressure air or if there is any potential for uncontrolled e levels are unknown, or any other ere air purifying respirators may not provide on.
Hand	l protection			
R	emarks	:	Wash hands befo	re breaks and at the end of workday.
Eye p	protection	:	Wear the followin Safety glasses	g personal protective equipment:
Skin	and body protection	:	Skin should be wa	ashed after contact.
Hygie	ene measures	:	located close to the When using do not	ushing systems and safety showers are ne working place. ot eat, drink or smoke. ed clothing before re-use.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Grease
Color	:	white
Odor	:	odorless
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Will not burn
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available

## SAFETY DATA SHEET

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	Vapor	oressure	:	Not applicable	
	Relativ	e vapor density	:	Not applicable	
	Relativ	e density	:	No data available	)
	Solubili Wat	ity(ies) ter solubility	:	No data available	)
	Solu	ubility in other solvents	:	insoluble	
	Partitio octano	n coefficient: n- I/water	:	Not applicable	
	Autoigr	nition temperature	:	No data available	)
	Decom	position temperature	:	No data available	)
	Viscosi Visc	ty cosity, kinematic	:	Not applicable	
	Explos	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Particle	e size	:	No data available	

## SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Hazardous decomposition products will be formed at elevated temperatures.
Conditions to avoid	:	None known.
Incompatible materials	:	None.
Hazardous decomposition pr	od	ucts

Thermal decomposition : Hydrofluoric acid Carbonyl difluoride Carbon dioxide Carbon monoxide

# SAFETY DATA SHEET



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SECTIO	ON 11. TOXI	COLOGICAL I	NFORMATION	
Sk Ing	in contact gestion re contact	n likely routes	of exposure	
	<b>cute toxicity</b> ot classified b		ble information.	
	t <b>in corrosio</b> ot classified b		ble information.	
	-	<b>amage/eye irr</b> i based on availa	tation ble information.	
Re	espiratory o	r skin sensitiz	ation	
-	t <b>in sensitiza</b> ot classified b		ble information.	
	espiratory so ot classified b		ble information.	
	erm cell mut ot classified b		ble information.	
Ca	rcinogenici	ty		
	ot classified b RC	No ingredient		t at levels greater than or equal to 0.1% is onfirmed human carcinogen by IARC.
08	SHA		nt of this product prese t of regulated carcinog	nt at levels greater than or equal to 0.1% is gens.
NT	ΓP		of this product presen known or anticipated	t at levels greater than or equal to 0.1% is carcinogen by NTP.
	eproductive ot classified b	•	ble information.	
	OT-single e	•		
			ble information.	
	<b>OT-repeate</b> ot classified b	-	ble information.	
As	piration tox	icity		
No	ot classified b	based on availa	ble information.	
SECTIO	ON 12. ECO		ORMATION	
Ec	otoxicity			
	o data availal	ole		



Persistence and degradability         No data available         Bioaccumulative potential         No data available         Mobility in soil         No data available         Other adverse effects         No data available         CTION 13. DISPOSAL CONSIDERATIONS         Disposal methods         Waste from residues       :         Disposal methods         Waste from residues       :         Disposal methods         Contaminated packaging       :         Empty containers should be taken to an approved waste handling site for recycling or disposal.         If not otherwise specified: Dispose of as unused product.         CTION 14. TRANSPORT INFORMATION         International Regulations         UNRTDG         Not regulated as a dangerous good         IMDG-Code         Not regulated as a dangerous good         IMDG-Code         Not regulated as a dangerous good         Transport in bulk according to Annex II of MARPOL 73/76 and the IBC Code         Not applicable for product as supplied.         Domestic regulation	sion	Revision Date: 05/16/2018		DS Number: 353013-00032	Date of last issue: 12/05/2017 Date of first issue: 02/27/2017
Bioaccumulative potential No data available Mobility in soil No data available Other adverse effects No data available CTION 13. DISPOSAL CONSIDERATIONS Disposal methods Waste from residues : Dispose of in accordance with local regulations. Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. CTION 14. TRANSPORT INFORMATION International Regulations UNRTDG Not regulated as a dangerous good IATA-DGR Not regulated as a dangerous good IMDG-Code Not regulated as a dangerous good Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.		-	bility		
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Mobility in soil         No data available         Other adverse effects         No data available         CTION 13. DISPOSAL CONSIDERATIONS         Disposal methods         Waste from residues       : Dispose of in accordance with local regulations.         Contaminated packaging       : Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.         CTION 14. TRANSPORT INFORMATION         International Regulations         UNRTDG         Not regulated as a dangerous good         IATA-DGR         Not regulated as a dangerous good         IMDG-Code         Not regulated as a dangerous good         International Regulations good         MDG-Code         Not regulated as a dangerous good         IMDG-Code         Not regulated as a dangerous good         International Regulations good		•	I		
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#### 49 CFR

Not regulated as a dangerous good

## SECTION 15. REGULATORY INFORMATION

## EPCRA - Emergency Planning and Community Right-to-Know

#### **CERCLA Reportable Quantity**

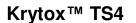
This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity** This material does not contain any components with a section 302 EHS TPQ.

## SARA 311/312 Hazards : No SARA Hazards

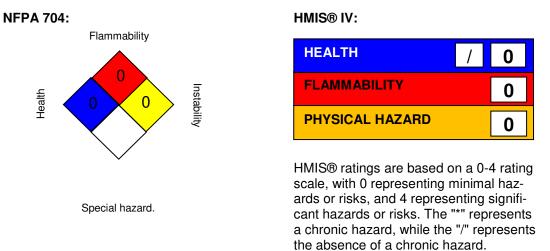




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SARA	A 313	known CAS ກເ	loes not contain any chemical components with umbers that exceed the threshold (De Minimis) s established by SARA Title III, Section 313.	
US St	tate Regulations			
Penn	sylvania Right To Kr	IOW		
	PFPE fluid		Trade secret Trade secret	
0.17	Fluoropolymer		Trade Secret	
Califo	ornia Prop. 65			
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.				

## **SECTION 16. OTHER INFORMATION**

## **Further information**



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For further information contact the local Chemours office or nominated distributors. All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

#### Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-
		its for Air Contaminants
OSHA Z-2	:	USA. Occupational Exposure Limits (OSHA) - Table Z-2
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit



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ACGI	H/C	: Ceiling limit			
NIOSH REL / TWA		<ul> <li>Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek</li> </ul>			
NIOSH REL / ST		: STEL - 15-mir	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday		
NIOSH REL / C OSHA Z-1 / TWA OSHA Z-2 / TWA		: Ceiling value r : 8-hour time we	Ceiling value not be exceeded at any time. 8-hour time weighted average 8-hour time weighted average		

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan): ISO - International Organisation for Standardization: KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG -United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

Revision Date

: 05/16/2018

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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## SAFETY DATA SHEET



## Krytox<sup>™</sup> TS4

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