

Versic 5.4	on	Revision Date: 02/21/2020		OS Number: 65331-00009	Date of last issue: 09/26/2019 Date of first issue: 06/23/2017				
SECT	ION 1.	IDENTIFICATION							
P	Product	name	:	: Krytox™ L-150 G					
S	SDS-Identcode		:	13000031550					
N	Manufa	cturer or supplier's	deta	nils					
C	Compa	ny name of supplier	:	The Chemours C	ompany FC, LLC				
A	Address		:	1007 Market Street Wilmington, DE 19801 United States of America (USA)					
Т	Telephone		:	1-844-773-CHEM (outside the U.S. 1-302-773-1000)					
E	Emergency telephone		:	Medical emergency: 1-866-595-1473 (outside the U.S. 1-302-773-2000) ; Transport emergency: +1-800-424-9300 (outsid the U.S. +1-703-527-3887)					
R	Recom	mended use of the c	hen	nical and restriction	ons on use				
R	Recomi	mended use	:	Lubricant					
R	Restrict	ions on use	:	tions involving im internal body fluid written agreemen	only. ell Chemours™ materials in medical applica- plantation 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

#### Components

No hazardous ingredients

#### **SECTION 4. FIRST AID MEASURES**



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lf in	If inhaled		If inhaled, remove to fresh air. Get medical attention if symptoms occur.				
In c	In case of skin contact		Wash with water and soap as a precaution. Get medical attention if symptoms occur.				
In c	ase of eye contact		Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.				
If sv	If swallowed		If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.				
and	Most important symptoms and effects, both acute and delayed		Inhalation may provoke the following symptoms: Irritation Lung edema Eye contact may provoke the following symptoms Blurred vision Discomfort Lachrymation Skin contact may provoke the following symptoms: Irritation Redness				
Pro	tection of first-aiders	: N	o special precau	tions are necessary for first aid responders.			
Not	es to physician	: Т	reat symptomati	cally and supportively.			

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Not applicable Will not burn
Unsuitable extinguishing media	:	Not applicable Will not burn
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Fluorine compounds Hydrogen fluoride carbonyl fluoride potentially toxic fluorinated compounds aerosolized particulates
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment	:	Wear self-contained breathing apparatus for firefighting if

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for fire-fighters			necessary. Use personal protective equipment.				
SECTI	ON 6. ACCIDENTAL REL	EAS	E MEASURES				
Personal precautions, protec- tive equipment and emer- gency procedures		- :		Follow safe handling advice and personal protective equipment recommendations.			
Environmental precautions			Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.				
	ethods and materials for ntainment and cleaning up	: )	For large spills, p ment to keep ma pumped, store re Clean up remain bent. Local or national sal of this materia ployed in the clea which regulations Sections 13 and	rt absorbent material. provide diking or other appropriate contain- terial from spreading. If diked material can be ecovered material in appropriate container. ing materials from spill with suitable absor- regulations may apply to releases and dispo- al, as well as those materials and items em- anup of releases. You will need to determine s are applicable. 15 of this SDS provide information regarding ational 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 as- sessment 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	TŴA	3 ppm 2.5 mg/m <sup>3</sup>	NIOSH REL
		С	6 ppm 5 mg/m³	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/m³	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

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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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		unknown, appropriate respiratory protection should be Follow OSHA respirator regulations (29 CFR 1910.13 use NIOSH/MSHA approved respirators. Protection pr by air purifying respirators against exposure to any ha dous chemical is limited. Use a positive pressure air s respirator if there is any potential for uncontrolled rele exposure levels are unknown, or any other circumstar where air purifying respirators may not provide adequ protection.			
Hand	protection				
R	emarks	: Wash hand	s before breaks and at the end of workday.		
Еуе р	protection	: Wear the fo Safety glass	llowing personal protective equipment: ses		
Skin	and body protection	: Skin should	be washed after contact.		
Hygie	ene measures	eye flushing king place. When using	to chemical is likely during typical use, provide systems and safety showers close to the wor- do not eat, drink or smoke. minated 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	:	608 °F / 320 °C
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	:	No data available



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fla	ammal	pility limit			
	Lower explosion limit / Lower flammability limit		:	No data available	
V	′apor p	ressure	:	Not applicable	
R	Relative	e vapor density	:	Not applicable	
R	Relative	edensity	:	1.9	
S	olubilit Wate	y(ies) er solubility	:	insoluble	
	artitior ctanol/	n coefficient: n- water	:	Not applicable	
A	utoigni	ition temperature	:	No data available	)
D	ecomp	oosition temperature	:	572 °F / 300 °C	
V	′iscosit Visco	y osity, kinematic	:	Not applicable	
E	xplosiv	ve properties	:	Not explosive	
C	Dxidizin	g properties	:	The substance o	r mixture is not classified as oxidizing.
Ρ	article	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 products Thermal decomposition Hvd

hermal decomposition	:	Hydrofluoric acid
-		Carbonyl difluoride
		Carbon dioxide
		Carbon monoxide

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JIION 11. 107	XICOLOGICAL INFORMATION
Information of	on likely routes of exposure
Skin contact Ingestion Eye contact	
Acute toxicit	y
Not classified	based on available information.
Skin corrosio	on/irritation
Not classified	based on available information.
•	damage/eye irritation
Not classified	based on available information.
Respiratory	or skin sensitization
Skin sensitiz	ation
Not classified	based on available information.
Respiratory	sensitization
Not classified	based on available information.
Germ cell mu	
Not classified	based on available information.
Carcinogenio	•
Not classified IARC	based on available information. No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

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### STOT-single exposure

Not classified based on available information.

#### STOT-repeated exposure

Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.

### SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity No data available



ersion 4	Revision Date: 02/21/2020		DS Number: 765331-00009	Date of last issue: 09/26/2019 Date of first issue: 06/23/2017
Persi	stence and degradab	oility		
No da	ita available			
	ccumulative potentia			
	l <b>ity in soil</b> Ita available			
Othe	adverse effects			
No da	ita available			
Conta	minated packaging	:	Empty containe handling site for	ccordance with local regulations. rs should be taken to an approved waste r recycling or disposal. specified: Dispose of as unused product.
ECTION	14. TRANSPORT INF	ORM	IATION	
Interr	national Regulations			
UNR Not re	r <b>DG</b> egulated as a dangero	us go	od	
	DGR		od	
IATA Not re	egulated as a dangero	us go	lou	
Not re IMDG	egulated as a dangerou A <b>-Code</b> Agulated as a dangerou	0		

Not applicable for product as supplied.

### Domestic regulation

#### 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.

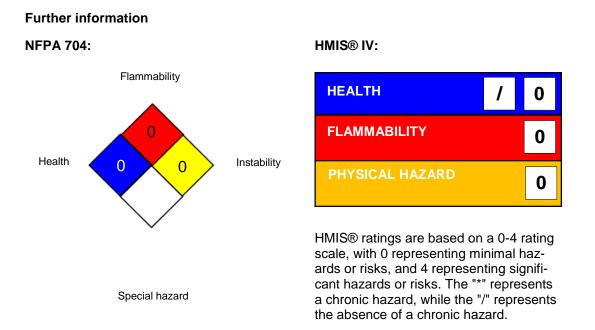
**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity** This material does not contain any components with a section 302 EHS TPQ.

### SARA 311/312 Hazards : No SARA Hazards



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SARA	313	known CAS num	es not contain any chemical components with bers that exceed the threshold (De Minimis) established by SARA Title III, Section 313.			
US St	US State Regulations					
Penns	sylvania Right To Kno	ow.				
	Linear Fluid		Trade secret			
	Fluoropolymer		Trade secret			
	PFPE fluid		Trade secret			
Califo	rnia Prop. 65					
WARN which For me with P	IING: This product car is/are known to the Sta ore information go to w FOA nor is PFOA inter	ate of California to cau ww.P65Warnings.ca.g	cals including pentadecafluorooctanoic acid, se birth defects or other reproductive harm. Jov. Note to User: This product is not made product; however, it is possible that PFOA ronmental) levels.			

### **SECTION 16. OTHER INFORMATION**



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Chemours <sup>™</sup> and the Chemours Logo are trademarks of The Chemours Company. Before use read Chemours safety information.

For further information contact the local Chemours office or nominated distributors.

Full text of other	abbreviations
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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-



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		its for Air Cor				
OSHA Z-2			: USA. Occupational Exposure Limits (OSHA) - Table Z-2			
ACGIH / TWA			: 8-hour, time-weighted average			
ACGIH / STEL		: Short-term exposure limit				
ACGIH / 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-minute TWA exposure that should not be exceeded at any time during a workday			
NIOSH REL / C		: Ceiling value	Ceiling value not be exceeded at any time.			
OSHA Z-1 / TWA		: 8-hour time w	8-hour time weighted average			
OSHA Z-2 / TWA		: 8-hour time w	reighted 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 : compile the Material Safety Data Sheet		Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
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