

Version 7.4	Revision Date: 10/10/2020		DS Number: 336454-00040	Date of last issue: 02/27/2020 Date of first issue: 02/27/2017	
SECTION	1. IDENTIFICATION				
Produ	uct name	:	Freon™ HP80 (F	R-402A) Refrigerant	
SDS-	Identcode	:	130000050991		
Manu	afacturer or supplier's	s deta	ails		
Com	Company name of supplier		The Chemours Company FC, LLC		
Addre	Address		1007 Market Stre Wilmington, DE	eet 19801 United States of America (USA)	
Telep	Telephone		1-844-773-CHEM (outside the U.S. 1-302-773-1000)		
Emer	Emergency telephone			ncy: 1-866-595-1473 (outside the U.S. 1-302- nsport emergency: +1-800-424-9300 (outside 527-3887)	
Reco	mmended use of the	chen	nical and restricti	ons on use	
Reco	mmended use	:	Refrigerant		
Restr	Restrictions on use		For professional	users only.	

## SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accord 1910.1200)	an	ce with the OSHA Hazard Communication Standard (29 CFR
Gases under pressure	:	Liquefied gas
Simple Asphyxiant		
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	H280 Contains gas under pressure; may explode if heated. May displace oxygen and cause rapid suffocation.
Precautionary Statements	:	<b>Storage:</b> P410 + P403 Protect from sunlight. Store in a well-ventilated place.



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#### Other hazards

Vapors are heavier than air and can cause suffocation by reducing oxygen available for breathing. Misuse or intentional inhalation abuse may cause death without warning symptoms, due to cardiac effects.

Rapid evaporation of the product may cause frostbite. Dangerous for the ozone layer.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Pentafluoroethane#	354-33-6	60
Chlorodifluoromethane	75-45-6	38
Propane	74-98-6	2
"What was also also a share to a	and a second second	

# Voluntarily-disclosed non-hazardous substance

## SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Thaw frosted parts with lukewarm water. Do not rub affected area. Get medical attention immediately.
In case of eye contact	:	Get medical attention immediately.
If swallowed	:	Ingestion is not considered a potential route of exposure.
Most important symptoms and effects, both acute and delayed	:	May cause cardiac arrhythmia. Other symptoms potentially related to misuse or inhalation abuse are Cardiac sensitization Anaesthetic effects Light-headedness Dizziness confusion Lack of coordination Drowsiness Unconsciousness Contact with liquid or refrigerated gas can cause cold burns and frostbite.
Protection of first-aiders	:	No special precautions are necessary for first aid responders.
Notes to physician	:	Because of possible disturbances of cardiac rhythm, ca-



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					s, such as epinephrine, that may be used in gency life support should be used with spe-
SECTI	ION 5.	FIRE-FIGHTING ME	ASU	RES	
S	uitable	e extinguishing media	:	Not applicable Will not burn	
	nsuita iedia	ble extinguishing	:	Not applicable Will not burn	
	pecific ghting	hazards during fire	:		pustion products may be a hazard to health. rises there is danger of the vessels bursting por pressure.
	azardo cts	ous combustion prod-	:	Fluorine compour Carbon oxides	ds
	pecific ds	extinguishing meth-	:	cumstances and t Fight fire remotely Use water spray t	measures that are appropriate to local cir- he surrounding environment. due to the risk of explosion. o cool unopened containers. ged containers from fire area if it is safe to do
		protective equipment ighters	:	Wear self-contain necessary. Use personal prot	ed breathing apparatus for firefighting if ective equipment.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive equipment and emer- gency procedures	Evacuate personnel to safe areas. Avoid skin contact with leaking liquid (danger of frostbite). Ventilate the area. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions :	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water.
Methods and materials for : containment and cleaning up	Ventilate the area. Local or national regulations may apply to releases and dispo- sal of this material, as well as those materials and items em- ployed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### SECTION 7. HANDLING AND STORAGE

Technical measures

: Use equipment rated for cylinder pressure. Use a backflow



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			preventative de when empty.	evice in piping. Close valve after each use and
Local	I/Total ventilation	:	Use only with a	dequate ventilation.
Advic	ce on safe handling	:	practice, based sessment Wear cold insu Valve protectio remain in place piped to use po Use a check va zardous back fl Prevent backflo Use a pressure to lower pressure to lower pressure Close valve afte or force fit com Prevent the intr Never attempt Do not drag, sli Use a suitable Keep away from Take precautio	g gas. rdance with good industrial hygiene and safety I on the results of the workplace exposure as- lating gloves/ face shield/ eye protection. In caps and valve outlet threaded plugs must e unless container is secured with valve outlet bint. alve or trap in the discharge line to prevent ha- low into the cylinder. bw into the gas tank. e reducing regulator when connecting cylinder ire (<3000 psig) piping or systems. er each use and when empty. Do NOT change
Cond	litions for safe storage	:	vent falling or b Separate full co Do not store ne Avoid area whe Keep in propert Keep in a cool, Keep away from	Id be stored upright and firmly secured to pre- being knocked over. Intainers from empty containers. ear combustible materials. ere salt or other corrosive materials are present. by labeled containers. well-ventilated place. In direct sunlight. lance with the particular national regulations.
Mate	rials to avoid	:	Self-reactive su Organic peroxia Oxidizing agen Flammable liqu Flammable soli Pyrophoric liqu Pyrophoric solid Self-heating su Substances an flammable gase Explosives Acutely toxic su	ts ids ds ds bstances and mixtures d mixtures which in contact with water emit



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	Recommended storage tem- perature	: <	126 °F / < 52 °C	
Storage period		: >	10 y	
-	Further information on stor- age stability		ne product has a	an indefinite shelf life when stored properly.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

:

ingredients with workplace e	••••••••••••••••••••••••••••••••••••••			
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Pentafluoroethane	354-33-6	TWA	1,000 ppm	US WEEL
Chlorodifluoromethane	75-45-6	TWA	1,000 ppm	ACGIH
		ST	1,250 ppm 4,375 mg/m <sup>3</sup>	NIOSH REL
		TWA	1,000 ppm 3,500 mg/m <sup>3</sup>	NIOSH REL
Propane	74-98-6	TWA	1,000 ppm 1,800 mg/m³	NIOSH REL
		TWA	1,000 ppm 1,800 mg/m <sup>3</sup>	OSHA Z-1

### Ingredients with workplace control parameters

Engineering	measures
Linginicering	measures

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 unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazar- dous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
Hand protection Material :	Low temperature resistant gloves
Remarks :	Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. For special applications, we recommend clarifying the resistance to che- micals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. Breakthrough time is not determined for the pro-



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Еуе р	protection	: Wear the	nge gloves often! following personal protective equipment: resistant goggles must be worn. eld
Skin and body protection		: Skin shou	Id be washed after contact.
Protective measures		: Wear cold	d insulating gloves/ face shield/ eye protection.
Hygiene measures		eye flushi king place When usi	re to chemical is likely during typical use, provide ng systems and safety showers close to the wor- e. ng do not eat, drink or smoke. ntaminated clothing before re-use.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Liquefied gas
Color	:	clear, colorless
Odor	:	slight, ether-like
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	-56.0 °F / -48.9 °C (1,013 hPa)
Flash point	:	Not applicable
Flash point Evaporation rate	:	Not applicable > 1 (CCL4=1.0)
	::	> 1 (CCL4=1.0)
Evaporation rate	:	> 1 (CCL4=1.0)
Evaporation rate Flammability (solid, gas) Upper explosion limit / Upper	:	<ul> <li>&gt; 1 (CCL4=1.0)</li> <li>Will not burn</li> <li>Upper flammability limit Method: ASTM E681</li> </ul>

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			24,500 hPa (122	°F / 50 °C)
Rel	Relative vapor density		No data available	e
Rel	ative density	:	1.15 (77 °F / 25 °	°C)
Der	Density		1.13 - 1.15 g/cm <sup>:</sup> (as liquid)	³ (77 °F / 25 °C)
	Solubility(ies) Water solubility		No data available	e
	Partition coefficient: n- octanol/water		Not applicable	
Aut	oignition temperature	:	1333 °F / 723 °C	
Dec	composition temperature	:	No data available	e
	Viscosity Viscosity, kinematic		Not applicable	
Exp	plosive properties	:	Not explosive	
	Oxidizing properties			r mixture is not classified as oxidizing.
Par	Particle size		Not applicable	

## SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.	
Chemical stability	:	Stable if used as directed. Follow precautionary advice and avoid incompatible materials and conditions.	
Possibility of hazardous reac- tions	:	Can react with strong oxidizing agents.	
Conditions to avoid	:	This substance is not flammable in air at temperatures up to 100 °C (212 °F) at atmospheric pressure. However, mixtures of this substance with high concentrations of air at elevated pressure and/or temperature can become combustible in the presence of an ignition source. This substance can also become combustible in an oxygen enriched environment (oxygen concentrations greater than that in air). Whether a mixture containing this substance and air, or this substance in an oxygen enriched atmosphere become combustible depends on the inter-relationship of 1) the temperature 2) the pressure, and 3) the proportion of oxygen in the mixture. In general, this substance should not be allowed to exist with air above atmospheric pressure or at high temperatures; or in an oxygen enriched environment. For example this substance should NOT be mixed with air under pressure for leak testing or other	



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			purposes. Heat, flames ar	nd sparks.
Incor	npatible materials	:	Oxidizing agent	S
Haza produ	lecomposition products are known.			
SECTION	11. TOXICOLOGICAL	INF	ORMATION	
Inhal Skin	<b>mation on likely route</b> ation contact contact	s of (	exposure	
	<b>e toxicity</b> lassified based on avail	able	information.	
<u>Com</u>	ponents:			
Penta	afluoroethane:			
Acute	e inhalation toxicity	:		4 h e: gas Test Guideline 403
			Remarks: Cardia	ation threshold limit (Dog): 368.159 mg/m <sup>3</sup>
Chio	rodifluoromethane:			
	e inhalation toxicity	:	LC50 (Mouse): = Exposure time: 4 Test atmosphere Method: Expert	4 h e: gas
			No observed ad Test atmosphere	verse effect concentration (Dog): 25000 ppm e: gas
			Lowest observed ppm Test atmosphere	d adverse effect concentration (Dog): 50000 e: gas
			Cardiac sensitis	ation threshold limit (Dog): 175,000 mg/m³ e: gas
Prop	ane:			
-	e inhalation toxicity	:	LC50 (Rat): > 80 Exposure time: * Test atmosphere	15 min

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Skin (	corrosion/irritation		
Not cl	assified based on ava	ilable information.	
Serio	us eye damage/eye i	rritation	
Not cl	assified based on ava	ilable information.	
Respi	iratory or skin sensit	ization	
Skin s	sensitization		
Not cl	assified based on ava	ilable information.	
Respi	iratory sensitization		
Not cl	assified based on ava	ilable information.	
	cell mutagenicity assified based on ava	ilable information.	
Comr	oonents:		
Penta	fluoroethane:		
	toxicity in vitro		acterial reverse mutation assay (AMES) CD Test Guideline 471 tive
		Result: negat	vitro mammalian cell gene mutation test ive sed on data from similar materials
		Test Type: C	hromosome aberration test in vitro CD Test Guideline 473
Genot	toxicity in vivo	cytogenetic a Species: Mou Application R	use coute: inhalation (gas) CD Test Guideline 474
<b>.</b>			
	odifluoromethane:	· Toot Typo: P	actorial reverse mutation appay (AMES)
Geno	toxicity in vitro	Method: OEC	acterial reverse mutation assay (AMES) CD Test Guideline 471
		Result: positi	ve
		Test Type: In	vitro mammalian cell gene mutation test CD Test Guideline 476
	toxicity in vivo	Test Type: In Method: OEC Result: negat : Test Type: M cytogenetic a Species: Mou Application R	vitro mammalian cell gene mutation test CD Test Guideline 476 tive ammalian erythrocyte micronucleus test (in vivo issay) use coute: inhalation (gas) CD Test Guideline 474



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Assessi	ment	cell mutagen.				
Propan	e:					
Genotoxicity in vitro		: Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials				
Genoto	xicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Rat Application Route: inhalation (gas) Method: OECD Test Guideline 474 Result: negative Remarks: Based on data from similar materials				
	<b>ogenicity</b> ssified based on ava	ilable information.				
Compo						
Chloro	difluoromethane:					
Species Application Route Exposure time Result Remarks		<ul> <li>Mouse</li> <li>inhalation (gas)</li> <li>581 days</li> <li>negative</li> <li>The mechanism or mode of action is not relevant in humans</li> </ul>				
Carcinogenicity - Assess- ment		: Weight of evidence does not support classification as a car- cinogen				
IARC No ingredient of this product present at levels greater than or equal t identified as probable, possible or confirmed human carcinogen by I						
OSHA		No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.				
NTP		No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.				
Reprod	luctive toxicity					
•	ssified based on ava	lable information.				
<u>Compo</u>	nents:					
Pentafl	uoroethane:					
Effects	on fertility	<ul> <li>Test Type: One-generation reproduction toxicity study Species: Rat Application Route: inhalation (vapor) Result: negative Remarks: Based on data from similar materials</li> </ul>				
Effects	on fetal developme	t : Test Type: Embryo-fetal development Species: Rat Application Route: inhalation (gas)				



rsion I	Revision Date: 10/10/2020	-	S Number: 36454-00040	Date of last issue: 02/27/2020 Date of first issue: 02/27/2017		
			Method: OECD T Result: negative	est Guideline 414		
Chlor	odifluoromethane:					
Effect	s on fertility	:	Species: Mouse Application Route Result: negative	e: Inhalation		
Effect	s on fetal development	:	<ul> <li>Test Type: Prenatal development toxicity study (teratogeni Species: Rat Application Route: Inhalation Method: OECD Test Guideline 414 Result: negative</li> </ul>			
Repro sessn	oductive toxicity - As- nent	:	Weight of eviden ductive toxicity	ce does not support classification for repro-		
Propa	ane:					
-	s on fertility	:	reproduction/dev Species: Rat Application Route	vined repeated dose toxicity study with the elopmental toxicity screening test e: inhalation (gas) Test Guideline 422		
Effect	s on fetal development	:	: Test Type: Combined repeated dose toxicity study with th reproduction/developmental toxicity screening test Species: Rat Application Route: inhalation (gas) Method: OECD Test Guideline 422 Result: negative			
STOT	-single exposure					
	assified based on availa	ble	information.			
<u>Comp</u>	oonents:					
Chlor	odifluoromethane:					
	es of exposure ssment	:	inhalation (gas) No significant heat tions of 20000 pp	alth effects observed in animals at concentrom W/4h or less		
Propa	ane:					
Asses	sment	:	May cause drows	siness or dizziness.		
	-repeated exposure assified based on availa	ble	information			
	oonents:					
	odifluoromethane:					
	es of exposure	:	inhalation (gas)			



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Asse	ssment		health effects observed in animals at concentra- omV/6h/d or less.		
Repe	ated dose toxicity				
Com	ponents:				
Spec NOAI Applie	EL cation Route sure time	: Rat : >= 50000 ppm : inhalation (gas : 13 Weeks : OECD Test G	5)		
Chlo	rodifluoromethane:				
	EL	: Mouse, male a : 10000 ppm : 50000 ppm : inhalation (gas : 581 d			
Prop	ane:				
	EL cation Route sure time	: Rat : 7.214 mg/l : inhalation (gas : 6 Weeks : OECD Test G			
Aspii	ration toxicity				
Not c	Not classified based on available information.				
SECTION	12. ECOLOGICAL INF	ORMATION			
Ecot	oxicity				
	ponents:				
Penta	afluoroethane:				

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials



ersion .4	Revision Date: 10/10/2020		0S Number: 36454-00040	Date of last issue: 02/27/2020 Date of first issue: 02/27/2017
			mg/I Exposure time: 72 Method: OECD T	
Chlor	odifluoromethane:			
Toxic	ity to fish	:	Exposure time: 9	o (zebra fish)): 777 mg/l 6 h est Guideline 203
	ity to daphnia and other ic invertebrates	•	Exposure time: 4	nagna (Water flea)): 433 mg/l 3 h est Guideline 202
Toxic plants	ity to algae/aquatic	:	EC50 (algae): 37 Exposure time: 72 Method: ECOSAF ships)	
Persi	stence and degradabili	ity		
<u>Comp</u>	oonents:			
	afluoroethane: gradability	:	Result: Not readil Biodegradation: Exposure time: 20 Method: OECD T	5 %
Chlor	odifluoromethane:			
Biode	gradability	:	Result: Not readil Method: OECD T	y biodegradable. est Guideline 301D
<b>Propa</b> Biode	ane: gradability	:	Result: Readily b Remarks: Based	odegradable. on data from similar materials
Bioad	cumulative potential			
<u>Com</u>	oonents:			
	afluoroethane:		<b>D</b>	
	ion coefficient: n- ol/water		Pow: 1.48 Method: OECD T	est Guideline 107
Partiti	<b>odifluoromethane:</b> ion coefficient: n- ol/water	:	log Pow: 1.13 (77	′ °F / 25 °C)
Propa	ane:			

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Partition coefficient: n- octanol/water		: log Pow: 2.36	
	<b>ility in soil</b> lata available		
Othe	er adverse effects		
Com	ponents:		
	prodifluoromethane: ne-Depletion Potential	range shall be ODPs listed a calculations b as a range are range pertains estimate of th the lower valu the lowest OD Regulation: U Substances th 23)	e of ODPs is indicated, the highest value in that e used for the purposes of the Protocol. The s a single value have been determined from ased on laboratory measurements. Those listed e based on estimates and are less certain. The s to an isomeric group. The upper value is the e ODP of the isomer with the highest ODP, and the is the estimate of the ODP of the isomer with OP. NEP - Handbook for the Montreal Protocol on hat Deplete the Ozone Layer (Update: 2016-11- the C - Group I: HCFCs (consumption and produc-
		the isomer is Regulation: 40 tection of Stra	omers of the substance, regardless of whether explicitly listed on its own. O CFR Protection of Environment; Part 82 Pro- tospheric Ozone - CAA Section 602 Class II Jpdate: 2014-10-28)

## SECTION 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. Empty pressure vessels should be returned to the supplier. If not otherwise specified: Dispose of as unused product.

## SECTION 14. TRANSPORT INFORMATION

## International Regulations

UNRTDG
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UN number	: UN 3163
Proper shipping name	: LIQUEFIED GAS, N.O.S.
	(Pentafluoroethane, Chlorodifluoromethane)



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F	Class Packing Labels	g group	2.2 Not assigned by regulation 2.2	
l F L F F F F	Class Packing Labels Packing aircraft	No. shipping name g group g instruction (cargo ) g instruction (passen-	 UN 3163 Liquefied gas, n.c (Pentafluoroethat 2.2 Not assigned by r Non-flammable, n 200 200	ne, Chlorodifluoromethane) egulation
l F C F L E	Class Packing Labels EmS C	nber shipping name g group	 <ul> <li>UN 3163</li> <li>LIQUEFIED GAS, N.O.S. (Pentafluoroethane, Chlorodifluoromethane)</li> <li>2.2</li> <li>Not assigned by regulation</li> <li>2.2</li> <li>F-C, S-V</li> <li>no</li> </ul>	

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Domestic regulation

.. . . .

49 CFR	
UN/ID/NA number	: UN 3163
Proper shipping name	: Liquefied gas, n.o.s.
	(Pentafluoroethane, Chlorodifluoromethane)
Class	: 2.2
Packing group	: Not assigned by regulation
Labels	: NON-FLAMMABLE GAS
ERG Code	: 126
Marine pollutant	: no

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### **SECTION 15. REGULATORY INFORMATION**

### **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.

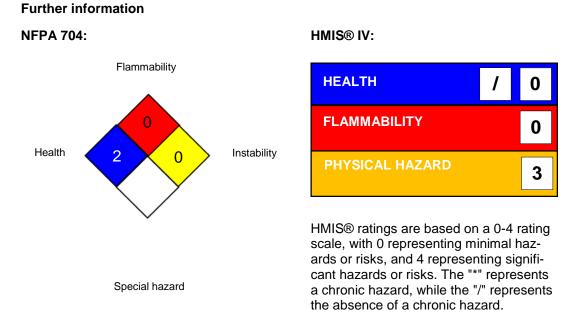
### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.



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S	ARA 3	311/312 Hazards	:	Gases under pres Simple Asphyxiar		
S	SARA 313		:	The following components are subject to reporting levels es- tablished by SARA Title III, Section 313:		
				Chlorodifluoro- methane	75-48	5-6 38 %
U	IS Stat	e Regulations				
P	ennsy	Ivania Right To Kno	w			
		Pentafluoroethane				354-33-6
	Chlorodifluoromethane		ane			75-45-6
	Propane					74-98-6
С	alifor	nia List of Hazardous	s Su	Ibstances		
		Chlorodifluorometh	ane			75-45-6
С	California Permissible Exposure Limits for Chemical Contaminants					
		Chlorodifluorometh	ane			75-45-6
		Propane				74-98-6
In	nterna	tional Regulations				
М	Iontrea	al Protocol			:	Pentafluoroethane Chlorodifluoromethane

## **SECTION 16. OTHER INFORMATION**



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#### 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
US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA Z-1 / TWA	:	8-hour time weighted average
US WEEL / TWA	:	8-hr TWA

AIIC - Australian Inventory of Industrial Chemicals; 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

compile the Material Safety

Sources of key data used to : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-



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