

Versio 11.8	on	Revision Date: 12/05/2022		0S Number: 25513-00048	Date of last issue: 04/18/2022 Date of first issue: 02/27/2017
SECT	ION 1.	IDENTIFICATION			
F	Product	name	:	Freon™ 134a (HF	C-134a) Refrigerant - Propellant
F	Product	code	:	D10130577	
S	SDS-Ide	entcode	:	13000000349	
		cturer or supplier's on the supplier of supplier			ompany FC, LLC
Д	Address	3	:	1007 Market Strea Wilmington, DE 1	et 9801 United States of America (USA)
т	elepho	one	:	1-844-773-CHEM	(outside the U.S. 1-302-773-1000)
E	Emerge	ncy telephone	:		cy: 1-866-595-1473 (outside the U.S. 1-302- sport emergency: +1-800-424-9300 (outside 27-3887)
R	Recom	mended use of the c	hen	nical and restriction	ons on use
F	Recom	mended use	:	Refrigerant	
F	Restrict	ions on use	:	For professional a	and industrial installation and use only.

SECTION 2. HAZARDS IDENTIFICATION

	GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)				
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	:	Storage: 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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	: Substance
Substance name	: 1,1,1,2-Tetrafluoroethane
CAS-No.	: 811-97-2

Components

Chemical name	CAS-No.	Concentration (% w/w)
1,1,1,2-Tetrafluoroethane#	811-97-2	>= 99.9 - <= 100

Voluntarily-disclosed 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. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
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



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			xygen available for breathing. Juid or refrigerated gas can cause cold burns
Prote	ction of first-aiders	: No special prec	cautions are necessary for first aid responders.
Notes to physician		: Because of possible disturbances of cardiac rhythm, car techolamine drugs, such as epinephrine, that may be us situations of emergency life support should be used with cial caution.	

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. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.
Hazardous combustion prod- ucts	:	Hydrogen fluoride carbonyl fluoride Carbon oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Fight fire remotely due to the risk of explosion. 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 for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective 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-



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		ployed in the which regula Sections 13 certain local	aterial, as well as those materials and items em- cleanup of releases. You will need to determine tions are applicable. and 15 of this SDS provide information regarding or national requirements.
	7. HANDLING AND ST	: Use equipme	ent rated for cylinder pressure. Use a backflow device in piping. Close valve after each use and
Loca	/Total ventilation	: Use only wit	n adequate ventilation.
Advic	e on safe handling	practice, bas sessment Wear cold in Valve protect remain in pla piped to use Use a check zardous bac Prevent bac Use a press to lower press Close valve or force fit co Prevent the Never attem Do not drag, Use a suitab Keep away f Take precau	cordance with good industrial hygiene and safety ed on the results of the workplace exposure as- sulating gloves/ face shield/ eye protection. tion caps and valve outlet threaded plugs must uce unless container is secured with valve outlet point. valve or trap in the discharge line to prevent ha- k flow into the cylinder. cflow into the gas tank. ure reducing regulator when connecting cylinder soure (<3000 psig) piping or systems. after each use and when empty. Do NOT change onnections. ntrusion of water into the gas tank. pt to lift cylinder by its cap. slide or roll cylinders. le hand truck for cylinder movement. rom heat and sources of ignition. tionary measures against static discharges. prevent spills, waste and minimize release to the
Cond	litions for safe storage	vent falling c Separate ful Do not store Avoid area v Keep in prop Keep in a co Keep away f	ould be stored upright and firmly secured to pre- r being knocked over. containers from empty containers. near combustible materials. /here salt or other corrosive materials are present. erly labeled containers. ol, well-ventilated place. rom direct sunlight. ordance with the particular national regulations.
Mate	rials to avoid		ents



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				Substances and r flammable gases Explosives Very acutely toxic Acutely toxic subs	3
	Recom peratur	mended storage tem- e	:	< 126 °F / < 52 °C	
	Storage	e period	:	> 10 y	
	Further age sta	information on stor- bility	:	The product has a	an indefinite shelf life when stored properly.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ingredients with workplace control parameters								
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis				
		cxposurc)	concentration					
1,1,1,2-Tetrafluoroethane	811-97-2	TWA	1,000 ppm	US WEEL				

Ingredients with workplace control parameters

Endingering measur	DC
Engineering measur	C3
0 0	

: 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-



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		manufacture workday. Br	e aforementioned protective gloves with the glove er. Wash hands before breaks and at the end of eakthrough time is not determined for the pro- e gloves often!
Eye protection			lowing personal protective equipment: sistant goggles must be worn.
Skin a	and body protection	: Skin should	be washed after contact.
Protective measures		: Wear cold ir	sulating gloves/ face shield/ eye protection.
Hygie	ne 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	:	Liquefied gas
Color	:	colorless
Odor	:	slight, ether-like
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	-162 °F / -108 °C
Initial boiling point and boiling range	:	-15 °F / -26 °C (1,013 hPa)
Flash point	:	Not applicable
Evaporation rate	:	> 1 (CCL4=1.0)
Flammability (solid, gas)	:	Will not burn
Self-ignition	:	The substance or mixture is not classified as pyrophoric.
Upper explosion limit / Upper flammability limit	:	Upper flammability limit Method: ASTM E681 None.



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	wer explosion limit / Lower mmability limit	:	Lower flammabili Method: ASTM E None.	
Va	por pressure	:	5,700 hPa (68 °F	7 / 20 °C)
Re	elative vapor density	:	No data available	9
Re	elative density	:	1.208 (77 °F / 25	°C)
De	ensity	:	1.21 g/cm³ (77 °F (as liquid)	F / 25 °C)
So	lubility(ies) Water solubility	:	1.5 g/l(77 °F / 2	5 °C)
	rtition coefficient: n- tanol/water	:	log Pow: 1.06 (77	7 °F / 25 °C)
Au	toignition temperature	:	> 1369 °F / > 743	3°C
De	ecomposition temperature	:	No data available	9
Vi	scosity Viscosity, kinematic	:	Not applicable	
Ex	plosive properties	:	Not explosive	
O	kidizing properties	:	The substance o	r mixture is not classified as oxidizing.
Pa	rticle 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,	



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		substance should mospheric pressu enriched environr		rtion of oxygen in the mixture. In general, this d not be allowed to exist with air above at- ure or at high temperatures; or in an oxygen ment. For example this substance should rith air under pressure for leak testing or other d sparks.
In	compatible materials	:	Oxidizing agents	
	azardous decomposition oducts	:	No hazardous de	ecomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Eye contact

Acute toxicity

Not classified based on available information.

Components:

1,1,1,2-Tetrafluoroethane:

Acute oral toxicity :	Assessment: The substance or mixture has no acute oral tox- icity
Acute inhalation toxicity :	LC50 (Rat): > 567000 ppm Exposure time: 4 h Test atmosphere: gas Method: OECD Test Guideline 403
	No observed adverse effect concentration (Dog): 40000 ppm Test atmosphere: gas Remarks: Cardiac sensitization
	Lowest observed adverse effect concentration (Dog): 80000 ppm Test atmosphere: gas Symptoms: May cause cardiac arrhythmia.
	Cardiac sensitisation threshold limit (Dog): 334,000 mg/m³ Test atmosphere: gas Symptoms: May cause cardiac arrhythmia.
Acute dermal toxicity :	Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Not classified based on available information.



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Com	<u>nponents:</u>			
1,1, 1 Resi	I,2-Tetrafluoroethane: ult	:	No skin irritation	
Not	ous eye damage/eye irr classified based on availa			
	<u>iponents:</u>			
Resu	I,2-Tetrafluoroethane: ult	:	No eye irritation	
Res	piratory or skin sensitiz	zatio	on	
-	sensitization	able	information.	
-	piratory sensitization classified based on availa	able	information.	
<u>Com</u>	<u>iponents:</u>			
1,1,1	I,2-Tetrafluoroethane:			
Rout Rest	tes of exposure ult	:	Skin contact negative	
Rout Spec Resi		::	Inhalation Rat negative	
Rout Spec Resi		:	Inhalation Humans negative	
	n cell mutagenicity classified based on availa	able	information.	
Com	<u>iponents:</u>			
1,1,1	I,2-Tetrafluoroethane:			
Gen	otoxicity in vitro	:	Test Type: Bacter Method: OECD T Result: negative	ial reverse mutation assay (AMES) est Guideline 471
			Test Type: Chrom Method: OECD To Result: negative	nosome aberration test in vitro est Guideline 473
Gen	otoxicity in vivo	:	Test Type: Mamm cytogenetic assay Species: Mouse Application Route	



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		Method: Result: n	OECD Test Guideline 474 legative			
		mammal Species: Applicatio	on Route: inhalation (gas) OECD Test Guideline 486			
	cell mutagenicity - sment	: Weight o cell muta	of evidence does not support classification as a g agen.	jern		
	n ogenicity assified based on av	nilabla informatio				
	ionents:		чт.			
	2-Tetrafluoroethane					
Speci Applic	es ation Route sure time od	: Rat : inhalation : 2 Years	est Guideline 453			
Carcinogenicity - Assess- : ment		: Weight o cinogen	of evidence does not support classification as a c	ar-		
IARC		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.				
OSH/		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.				
-	oductive toxicity assified based on av	ailable informatio	on.			
Comp	oonents:					
1,1,1,	2-Tetrafluoroethane	:				
	s on fertility	: Species:	on Route: Inhalation			
Effect	s on fetal developme	reproduc Species: Applicatio	on Route: inhalation (gas) OECD Test Guideline 414	те		
			10 / 15			



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Reproductive toxicity - As- sessment		:	Weight of evidend ductive toxicity	ce does not support classification for repro-
	-single exposure assified based on avail	able	information.	
<u>Com</u>	oonents:			
Route	2-Tetrafluoroethane: es of exposure esment	:	inhalation (gas) No significant hea tions of 20000 pp	alth effects observed in animals at concentra- mV/4h or less
	-repeated exposure assified based on avail	able	information.	
Comp	oonents:			
1,1,1,	2-Tetrafluoroethane:			
	es of exposure ssment	 inhalation (gas) No significant health effects observed in animals at tions of 250 ppmV/6h/d or less. 		
Repe	ated dose toxicity			
Comp	oonents:			
1,1,1,	2-Tetrafluoroethane:			
	EL EL cation Route sure time		Rat, male and fer 50000 ppm >50000 ppm inhalation (gas) 2 y OECD Test Guid	
-	ation toxicity assified based on avail	able	information.	
<u>Comp</u>	oonents:			
1,1,1.	2-Tetrafluoroethane:			
	piration toxicity classifi	catio	n	

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

1,1,1,2-Tetrafluoroethane:



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Тох	Toxicity to fish		Exposure time: 96	hus mykiss (rainbow trout)): 450 mg/l S h on (EC) No. 440/2008, Annex, C.1
	Toxicity to daphnia and other aquatic invertebrates		Exposure time: 48	agna (Water flea)): 980 mg/l 3 h on (EC) No. 440/2008, Annex, C.2
Tox plar	icity to algae/aquatic its	:	ErC50 (green algae): > 100 mg/l Exposure time: 96 h Remarks: Based on data from similar materials	
Per	sistence and degradabili	ity		
<u>Cor</u>	nponents:			
1,1,	1,2-Tetrafluoroethane:			
Biod	degradability	:	Result: Not readil Method: OECD T	y biodegradable. est Guideline 301D
Bio	accumulative potential			
Cor	nponents:			
1,1,	1,2-Tetrafluoroethane:			
Bioa	accumulation	:	Remarks: Bioacci	umulation is unlikely.
	tition coefficient: n- anol/water	:	log Pow: 1.06	
Mol	pility in soil			
	data available			
Oth	er adverse effects			
No	data available			
SECTIO	N 13. DISPOSAL CONSI	DER	ATIONS	
Dis	posal methods			
	ste from residues		Dispose of in acc	ordance with local regulations

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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Prope	ng group s	:	UN 3159 1,1,1,2-TETRAFL 2.2 Not assigned by r 2.2	
UN/IE Prope Class Packi Label Packi aircra Packi	D No. er shipping name ng group s ng instruction (cargo		UN 3159 1,1,1,2-Tetrafluor 2.2 Not assigned by r Non-flammable, r 200 200	regulation
UN n	i-Code umber er shipping name	:	UN 3159 1,1,1,2-TETRAFL	UOROETHANE
Label EmS Marin	ng group s Code e pollutant		2.2 Not assigned by r 2.2 F-C, S-V no	
	sport in bulk according pplicable for product as			OL 73/78 and the IBC Code

Domestic regulation

49 CFR UN/ID/NA number Proper shipping name	:	UN 3159 1,1,1,2-Tetrafluoroethane
Class Packing group Labels ERG Code Marine pollutant		2.2 Not assigned by regulation NON-FLAMMABLE GAS 126 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.

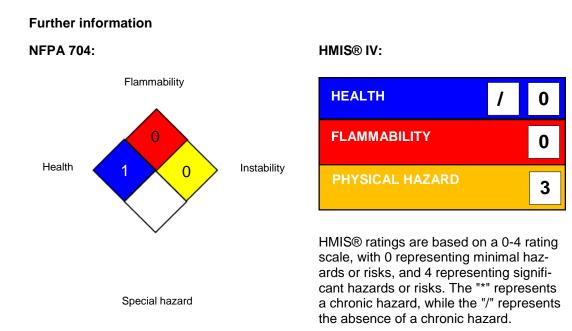
SARA 304 Extremely Hazardous Substances Reportable Quantity

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



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	•			reshold Planning Quantity a section 302 EHS TPQ.
SAR	A 311/312 Hazards	:	Gases under pre Simple Asphyxia	
SAR	A 313	:	known CAS num	s not contain any chemical components with bers that exceed the threshold (De Minimis) stablished by SARA Title III, Section 313.
US S	tate Regulations			
Penn	sylvania Right To Kn 1,1,1,2-Tetrafluor		ne	811-97-2
	national Regulations real Protocol			: 1,1,1,2-Tetrafluoroethane

SECTION 16. OTHER INFORMATION



Freon[™] and any associated logos are trademarks or copyrights of The Chemours Company FC, LLC.

Chemours[™] 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

US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
US WEEL / TWA	:	8-hr TWA



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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; TECI - Thailand Existing Chemicals 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 Agency, http://echa.europa.eu/
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: 12/05/2022

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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