

Perfluoro(2-methyl-3-pentanone) Safety Data Sheet 2117223 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 07/07/2017 Version: 1.0

Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixture Classification (GHS-US) Skin Int. 2 H315 - Causes skin irritation Eye Int. 2 H315 - Causes serious eye irritation System 12 Harmful to aquatic life with long lasting effects Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US) Hazard statements (GHS-US) Hazard statements (GHS-US) Precautionary statements (GHS-US) Precautionary statements (GHS-US) Precautionary statements (GHS-US) Precautionary statements (GHS-US) Precautionary statements (GHS-US) Hazard Statements (GHS-US) Precautionary statements (GHS-US) Precautionary statements (GHS-US) Hazard Statements (GHS-US) Hazard Statements (GHS-US) Precautionary statements (GHS-US) Hazard Statements (GHS-US) Precautionary statements (GHS-US) Hazard Statemen	SECTION 1: Identification				
Substance name : Perfluoro(2-methyl-3-pentanone) CAS No : 756-138 Product code : 2117-2-23 Formula : C GF 120 Synonyms : Performation : C GF 120 Synonyms : Determents of identification : MFCD04038343 1.2. Relevant identification : MFCD04038343 1.3. Details of the substance/mixture : Laboratory chemicals Manufacture of substances Scientific research and development 1.3. Details of the substance or mixture and uses advised against 1.4. Energency talephone number : ProCuest Laboratories, Inc. ProCuest Distance or mixture Exercise Construction of the substance or mixture Exe	1.1. Identification				
CAS No :: 756-13-8 Product code :: 2117-22.3 Somula :: CGF12O Synonyms :: Heptaturorisopropyl pentaflucoroethyl ketone; 1.1,1,2,2,4,5,5,5-Nonafluoro-4- (influcoromethylpentan-3-one) Dther means of identification :: MFCD04038343 1.2 Relevant Identified uses of the substance or mixture and uses advised against Jae of the substance/mixture :: Laboratory-themicals Manufacture of substances Scientific research and development :: 1.3 Details of the supplier of the safety data sheet SynOuest Laboratories, Inc. : O: Dex 309 : Skachua, FL 32615 - United States of America (1080) 462-0786 - (380) 462-0786 Into2exerpt number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: HA22ar0(45) identification 2.1 Classification of the substance or mixture Classification (0H8-US) :: (844) 523-4086 (3E Company - Account 10069) SECTION 2: HA22ar0(45) identification :: (844) 523-4086 (3E Company - Account 10069) SECTION 2: HA22ar0(45) identification :: (844) 523-4086 (3E Company - Account 10069) Section of the substance or mixture :: (844) 523-4086 (3E Company - Account 10069) Strop 1.4 : Ha315 - Cau	Product form	: Substance			
https://www.intercenterstate/intercentersta	Substance name	: Perfluoro(2-methyl-3-pentanone)			
comula : C6F120 synonyms : HepEllarovise.propyl pentafluoroethyl kelone; 1,1,1,2,2,4,5,5,5-Nonafluoro-4- (trifluoromethyl)pentan-3-one bther means of identification : MFCD04038343 2. Relevant identified uses of the substance or mixture and uses advised against ises of the substance/mixture : Laboratory chemicals Manufacture of substances Scientific research and development 3. Details of the supplier of the safety data sheet synonwet Laboratories, Inc. You Over Laboratories, Inc. Scientific research and development 70. Box 300 iuchturia, FL 32015 - United States of America (366) 462-0788 - F (368) 462-7097 info@synouestLaboratos com - www.youruestLabos com 4.4 Emergency telephone number iftergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(05) Identification :4.1 Classification of the substance or mixture Itassification (GHS-US) : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(05) Identification : (969) 442-7088 - F (368) May cause respiratory irritation quarter Chronic 3 tassification (GHS-US) : (977 tikin rhit : (978) 473 tassification (GHS-US) : H315 - Causes skin irritation H319 - Causes serious eye irritation H319 - Causes respiratory irritation H319 - Causes respiratory irritation H319 - Causes	CAS No	: 756-13-8			
Synonyms : Hepfaluoroisopropyl pentafluoroethyl ketone; 1,1,1,2,2,4,5,5,5-Nonafluoro-4- Citrifutoromethyl pentafluoroethyl pentafluoroethyl ketone; 1,1,1,2,2,4,5,5,5-Nonafluoro-4- Citrifutoromethyl pentafluoroethyl ketone; 1,1,1,2,2,4,5,5,5-Nonafluoro-4- Citrifutoromethyl pentafluoroethyl pentafluoroethyl ketone; 1,1,1,2,2,4,5,5,5-Nonafluoro-4- Citrifutoromethyl pentafluoroethyl pentafluoroethyl pentafluoroethyl ketone; 1,1,1,2,2,4,5,5,5-Nonafluoro-4- Citrifutoromethyl pentafluoroethyl	Product code	: 2117-2-23			
(triflocation : MFCD040038343 2.12. Relevant identification : MFCD040038343 Jace of the substance/mixture : Laboratory chemicals Manufacture of substances : Scientific research and development 3. Details of the supplier of the safety data sheet : Scientific research and development 3. Details of the supplier of the safety data sheet : Scientific research and development 20. Box 300 : : Scientific research and development 20. Box 300 : : : Scientific research and development 20. Box 300 : : : : : : 20. Box 300 : <td>Formula</td> <td>: C6F12O</td> <td></td>	Formula	: C6F12O			
biter means of identification : MFCD04038343 1.2. Relevant identified uses of the substance or mixture and uses advised against Jace of the substance/mixture : Laboratory chemicals Manufacture of substances Scientific research and development 1.3. Details of the supplier of the safety data sheet SynQuest Laboratories, Inc. 70. Box 300 Nachua, FL 32615 - United States of America (1986) 442-0785 + F (386) 442-0787 Info@Synquestlabs.com 1.4. Emergency telephone number Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(s) Identification 1.4. Classification of the substance or mixture 2.1. Classification of the substance or mixture 2.1. Classification (GHS-US) Skin Inti. 2 mixture in the substance or mixture 2.1. Substance or mixture 2.1. Substance or mixture 2.1. Classification (GHS-US) Skin Inti. 2 mixture in the substance or mixture 2.1. Labol elements 3.2. Labol elements 3.3. Har 2 - Nauses skin initiation Stard Har 2 - Marmful to aquatic life with long lasting effects 5.3. Full text of H-phrases: see section 16 2.2. Labol elements 3.4. Harmful to aquatic life with long lasting effects 5.3. Harmful to aquatic life with long lasting effects 5.4. Harmful to aquatic life with long lastin	Synonyms	: Heptafluoroisopropyl pentafluoroethyl ketone; 1,1,1,2,2,4,5,5,5-Nonafluoro-4-			
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SynQuest Laboratories, Inc. P.O. Box 309 Machua, FL 32615 - United States of America T (386) 462-7088 - F (386) 462-7097 Info@synquestBas.com 14. Emergency telephone number Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(S) identification 21. Classification of the substance or mixture Classification (GHS-US) Skin Irit. 2 H315 - Causes serious eye irritation SynGuest Laboratories, and the substance or mixture Classification (GHS-US) Skin Irit. 2 H315 - Causes serious eye irritation SynToT SE 3 H315 - May cause respiratory irritation Aquatic Chronic 3 H412 - Harmful to aquatic life with long lasting effects Full text of H-phrases: see section 16 EASUS fabeling Hazard pictograms (GHS-US) : Warning Hazard statements (GHS-US) : H315 - Causes skin irritation H319 - Causes serious eye irritation H319 - Causes serious eye irritation H319 - Causes serious eye irritation H319 - Causes serious eye irritation H319 - Causes serious eye irritation H319 - Causes serious eye irritation H319 - Causes serious eye irritation H319 - Causes serious eye irritation H31	Jse of the substance/mixture	Manufacture of substances			
SynQuest Laboratories, Inc. 20. Box 309 Nachua, FL 32615 - United States of America (7386) 462-7097 17386) 462-7097 17386 - 462-7007 17386 - 462-7007	1.3. Details of the supplier of the sa	afety data sheet			
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P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention	Skin Irrit. 2 H315 - Causes skin ir Eye Irrit. 2A H319 - Causes seriou STOT SE 3 H335 - May cause res Aquatic Chronic 3 H412 - Harmful to aqu Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	 use yei rivitation (spiratory irritation) (uatic life with long lasting effects : is in the second seco			
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P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant

		P301	- Dispose of contents/container to an ap	proved waste u	isposal plant
2.3.	Other hazards				
No addit	ional information available				
2.4.	Unknown acute toxicity (GHS US)				
Not appl	icable				
SECTI	ON 3: Composition/information	on in	gredients		
3.1.	Substance				
Substan	ce type	: Mono	p-constituent		
Name			Product identifier	%	Classification (GHS-US)
Perfluor (Main co	o(2-methyl-3-pentanone) nstituent)		(CAS No) 756-13-8	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Chronic 3, H412
Full text	of H-phrases: see section 16				
3.2.	Mixture				
Not appl	icable				
SECTI	ON 4: First aid measures				
4.1.	Description of first aid measures				
First-aid	measures general		se of accident or if you feel unwell, seek e possible). Move the affected personnel		
First-aid	measures after inhalation		ove person to fresh air and keep comfort ration. Get medical advice/attention.	able for breathir	ng. If not breathing, give artificial
First-aid	measures after skin contact	: Wasł	n with plenty of soap and water. Get med	ical advice/atter	ntion.
First-aid	measures after eye contact		ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get		
First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.				unconscious person. Rinse	
4.2.	Most important symptoms and effect	s, both	acute and delayed		
Symptor	ns/injuries		nost important known symptoms and effe and/or in section 11.	ects are describ	ed in the labelling (see section
4.3.	Indication of any immediate medical	attentio	n and special treatment needed		
Treat sy	mptomatically.				
SECTI	ON 5: Firefighting measures				
5.1.	Extinguishing media				
			nol resistant foam. Carbon dioxide. Dry p opriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2.	Special hazards arising from the sub	stance	or mixture		
Fire haz	ard	: Theri	mal decomposition generates: Carbon o	ides. Hydrogen	fluoride.
Explosio	n hazard		of explosion if heated under confinement iners.	. Use water spra	ay or fog for cooling exposed
5.3.	Advice for firefighters				
Firefight	ing instructions	: In ca	se of fire: Evacuate area. Fight fire remo	tely due to the ri	sk of explosion.
Protectio	on during firefighting		gas tight chemically protective clothing ratus. For further information refer to sec		
SECTI	ON 6: Accidental release meas	ures			

6.1.	Personal precautions, protective equ	ipment and emergency procedures		
General	measures	: Evacuate unnecessary personnel. Ensure a vapor or spray.	dequate air ventilation. Do not breathe gas, fu	mes,
6.1.1. Emerge	For non-emergency personnel ncy procedures	: Only qualified personnel equipped with suita	able protective equipment may intervene.	
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6.1.2.	For emergency responders	
Protect	ve equipment	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures		: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.
6.2.	Environmental precautions	

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material	for containment and cleaning up
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods for cleaning up	: Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to other se	ctions
No additional information availabl	e
SECTION 7: Handling and	d storage

7.1. Precautions for safe handling	
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	g any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.

Control parameters 8.1.

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	 In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties Physical state : Liquid Color : No data available : No data available Odor : No data available Odor threshold pН : No data available Melting point : -108 °C Freezing point : No data available Boiling point : 49 °C : 168.66 °C Critical temperature Critical pressure : 270.44 psia

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Flash point		:	No data available	
Relative evaporation rate (butyl acetate=1)		:	No data available	
Flammability (solid, gas)		:	No data available	
Explosion limits		:	No data available	
Explosive properties	:	:	No data available	
Oxidizing properties	:	:	No data available	
Vapor pressure	:	:	300 mm Hg 25.0	
Relative density	:	:	No data available	
Relative vapor density at 20 °C		:	No data available	
Specific gravity / density		:	1.6 g/ml (@ 25 °C)	
Molecular mass		:	316.04 g/mol	
Solubility		:	No data available	
Log Pow		:	No data available	
Auto-ignition temperature	1	:	No data available	
Decomposition temperature	1	:	No data available	
Viscosity	1	:	No data available	
Viscosity, kinematic		:	No data available	
Viscosity, dynamic		:	No data available	

9.2. **Other information**

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No add	itional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No add	itional information available
10.4.	Conditions to avoid
Keep a	way from heat, sparks and flame.
10.5.	Incompatible materials
Alcohol	s. Amines. Bases. Oxidizing agents.
10.6.	Hazardous decomposition products
Under r	normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of

fire, see Section 5. **SECTION 11: Toxicological information**

11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

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SECTI	ON 12: Ecological information
12.1.	Toxicity
No addit	ional information available
12.2.	Persistence and degradability
No addit	ional information available
12.3.	Bioaccumulative potential
No addit	ional information available
12.4.	Mobility in soil
No addit	ional information available
12.5.	Other adverse effects
No addit	ional information available

SECTION 13: Disposal considerations				
13.1. Waste treatment methods				
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.			
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.			
Additional information	: Recycle the material as far as possible.			

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information				
15.1. US Federal regulations				
Perfluoro(2-methyl-3-pentanone) (756-13-8)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory				
EPA TSCA Regulatory Flag	P - P - indicates a commenced PMN substance.			

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations
CANADA
Perfluoro(2-methyl-3-pentanone) (756-13-8)
Listed on the Canadian DSL (Domestic Sustances List)
EU-Regulations
Perfluoro(2-methyl-3-pentanone) (756-13-8)

Listed on ELINCS (European List of Notified Chemical Substances)

Perfluoro(2-methyl-3-pentanone)

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

National regulations

Perfluoro(2-methyl-3-pentanone) (756-13-8)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on NZIOC (New Zealand Inventory of Chemicals)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Full text of H-phrases:

Fuilter	a or ri-prirases.			
	Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard	Hazardous to the aquatic environment - Chronic Hazard Category 3	
	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A		
	Skin Irrit. 2	Skin corrosion/irritation Category 2		
	STOT SE 3	Specific target organ toxicity (single exposure) Category	3	
	H315	Causes skin irritation		
	H319	Causes serious eye irritation		
	H335	May cause respiratory irritation		
	H412	Harmful to aquatic life with long lasting effects		
NFPA	health hazard fire hazard reactivity	 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. 0 - Materials that will not burn. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. 	>	
HMIS I	II Rating			
Health		: 2 Moderate Hazard - Temporary or minor injury may occur		
Flammability : 0		0 Minimal Hazard - Materials that will not burn		
Physical		: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.		

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.