

Safety Data Sheet 12002X0 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/02/2015 Version: 1.0

1.1. Identification Product form : Substance Substance name : Perfluor(1,4-dimethylcyclohexane) CAS No : :: CAS No : :: :: Product code : :: :: :: Product code : :: <th>SECTION 1: Identification</th> <th></th>	SECTION 1: Identification	
Product form : Substance ame : Perfluoro(1,4-dimethyloyclohexane) Substance name : Perfluoro(1,4-dimethyloyclohexane) CAS No : 374-77-6 Product code : 1200-2-X0 Formula : G8F16 Other means of identification : MFCD00045478 12. Relevant identified uses of the substance or mixture and uses advised against No additional information available 13. Details of the supplier of the safety data sheet SynOuse Laboratories, Inc. PO. Dex 309 Alachus, FL 32615 - United States of America T (268) 462-0768 - F (368) 462-7007 Info Synuesilabs.com - www.synuesilabs.com 14. Emergency telephone number Energency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(S) Identification 21. Classification of the substance or mixture Classification (CHS-US) Skin Inft. 2 H 4715 - Causes skin initiation Eye Inft. 35 - May cease respiratory initiation Full text of H-phrases: see section 16 22. Label elements CHS SIGNE Solution Full text of H-phrases: see section 16 22. Label elements CHS Signal word (CHS-US) : Warning Hazard pietograms (GHS-US) : Warning Hazard pietograms (GHS-US) : Warning Hazard pietograms (GHS-US) : P361 - Causes skin initation H373 - May cease server, the advise server and t		
Substance name : Perfluoro(1.4-dimethylcyclohexane) CAS No : 374-77-6 Product code : 1200-2-X0.0 Formula : C&F16 Other means of identification : : C&F16 No additional information available : : : : : : : : : : : : : : : : : : :		Substance
CAS No : 374-77-6 Product code : 374-77-6 Product code : 1200-2-X0 Formula : CSF16 Cher means of identification : MFCD00045478 1.2. Relevant identified uses of the substance or mixture and uses advised against No additional information available 1.3. Details of the supplier of the safety data sheet SynCuest Laboratories, Inc. P.O. Box 300 Alachua, FL 32615 - United States of America T (366) 462-7057 InfOESmutuestlaboratories, Inc. P.O. Box 300 Alachua, FL 32615 - Onlined States of America T (366) 462-7058 - F (366) 462-7097 InfOESmutuestlaboratories, Inc. P.O. Box 300 SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixture Classification (GHS-US) Signal word (CHS-US) Signal word (CHS		
Product code : 1200-2-X0 Formula : CBF16 Coherr means of identification : IMECDOUG45478 1.2. Relevant Identified uses of the substance or mixture and uses advised against No additional information available 1.3. Details of the supplier of the safety data sheet SynCuest Laboratories, Inc. P.O. Box 300 Adachua, FL 32615 - United States of America 1.3. Details of the supplier of the safety data sheet SynCuest Laboratories, Inc. P.O. Box 300 Adachua, FL 32615 - United States of America 1.3. Details of the supplier of the safety data sheet SynCuest Laboratories, Inc. P.O. Box 300 Adachua, FL 32615 - United States of America 1.4. Emergency telephone number Emergency number : (844) 523-4086 (3E Company - Account 10069) SECETION 2: Hazard(s) identification 2.1. Classification of the substance or mixture Classification (GHS-US) Sin Inft 2: H315 - Causes skin irritation Fye Inft 2A H315 - Causes skin irritation Full text of H-phrases: see section 16 2.2. Label elements GH5-US fabeling Hazard pictograms (GHS-US) E H315 - Causes skin irritation H319 - Causes serious eye irritation F319 - Causes serious eye irritation H319 - Causes ser		
Formula : CBF16 Other means of identified uses of the substance or mixture and uses advised against No No additional information available Information available 1.3. Details of the supplier of the safety data sheet SynCluest Laboratories, Inc. P.O. Box 309 Ninted States of America T (36) 462-0788 - F (368) 462-7087 Info Sisrouestlabs.com 1.4. Energency telephone number Emergency telephone number Emergency telephone number Classification of the substance or mixture Classification of the substance or mixture Classification of HS-US) Skin Inti. 2, H315 - Causes skin initiation Every Every Every Stable elements GHS-US labeling Hazard pictograms (GHS-US) : Warning Hazard statements (GHS-US) : Warning Pleadulionary statements (GHS-US) : Warning Pleacutionary statements (GHS-US) : P281 - Avid skin intriation P282 - Wash skin introcy in a well-wallided area P282 - Wash skin introcy in a well-wallided area P282 - Wash skin introcy in a well-wallided area P282 - Wash skin introcy in a well-wallided area P282 - Wash skin introcy by sign if you feel inwell P282 - Wash skin introcy by sign if you feel inwell		
Other means of identification : MFCD00045478 1.2. Relevant identified uses of the substance or mixture and uses advised against No additional information available		
12. Relevant identified uses of the substance or mixture and uses advised against No additional information available 1.1. Details of the supplier of the safety data sheet SynCuest Laboratories, Inc. P.O. Box 309 Alschua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 Info@syncuestlabs.com + www.syncuestlabs.com 1.4. Emergency telephone number 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) Sin Inti. 2: M335 - May cause respiratory intation Eye Inti. 2A H315 - Causes serious eye intation Full text of H-phrases: see section 16 2.2. Label elements GHS-US : Warning Hazard pictograms (GHS-US) : Warning Hazard statements (GHS-US) : H315 - Causes skin irritation H335 - May cause respiratory irritation H335 -		
No additional information available 13. Details of the supplier of the safety data sheet SynOuest Laboratories, Inc. P.O. Box 309 Alachua, F. 32615 - United States of America T (36) 462-7097 T (36) 462-7097 info@ synubstitabs.com 1.4. Emergency telephone number Emergency regency telephone 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 Irrit. 2: H315 - Causes skin irritation Eye Irrit. 2A: H319 - Causes serious eye irritation FUI text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard statements (GHS-US) : Warning Hazard statements (GHS-US) : Warning Precautionary statements (GHS-US) : Warning P261 - Avoid breating fumes, mist, spray, vapors P264 - Wash skin throroughy after handling P271 - Use only outdoors or in a well-walter darea P282 - Wear protective gloves/protective clothing/egy protection/face protection P282 - Wash skin throroughy after handling P271 - Use only outdoors or in a well-walter darea P280 - Wear	Other means of identification :	MFCD00045478
1.3. Details of the supplier of the safety data sheet SynQuest Laboratories, Inc. PO. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-0787 Info@aynuestlabs.com - www.synquestlabs.com 1.4. Emergency telephone number Emergency number 2.1. Classification of the substance or mixture Classification (GHS-US) Skin Imf. 2 H319 - Causes skin irritation SYOT SE 3 H335 - May cause respiratory irritation Full text of H-phrases: see section 16 - 2.2. Label elements - GHS-US) : Signal word (GHS-US) : Hazard pictograms (GHS-US) : Hazard pictograms (GHS-US) : Hazard statements (GHS-US) : Hazard statements (GHS-US) : Precautionary statements (GHS-US) : Precautionary statements (GHS-US) : P261 - Avoid breathing fumes, mist, spray, vapors P224 - Wash skin throroughy after handling Protective gloves/protective dothrace protection 7ace protection P302+P31+P340 - If inhaled: Remove person to freah areal water P304+P340 - If inhaled: Remove person tof reah areal forsearting fumes, mist, spra	1.2. Relevant identified uses of the substant	nce or mixture and uses advised against
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 Info82 synquestibles.com - www.synquestibles.com 1.4. Emergency telephone number Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixture Classification of the substance or mixture Classification of CHS-US) Skin Irtit. 2 H315 - Causes skin irritation Eye Irrit. 2A H315 - Causes serious eye irritation Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Signal word (GHS-US) Field Exercised Statements (GHS-US) Field Exercised Statement (Field Exercised Statement) Field Exercised Statement (Field Exercised Ex	No additional information available	
P.O. Box 309 Alachua, FI. 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 Info@symquestlabs.com 1.4. Emergency telephone number 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 Intt. 2. H315 - Causes skin initiation Eye Intt. 2A H319 - Causes serious eye irritation Style Intt. 2A H319 - Causes serious eye irritation FUI text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) : Warning Hazard pictograms (GHS-US) : Warning Hazard pictograms (GHS-US) : Warning Hazard pictograms (GHS-US) : P261 - Avoid breathing fumes, mist, spray, vapors Precautionary statements (GHS-US) : P261 - Avoid breathing fumes, mist, spray, vapors P264 - Wash skin throughly after the hading P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves/protection/face protection P204+P340 - II insket: Water for several minutes. Remove con lenses, if present and easy to do. Continue Weater oreserveral minutes. Remove con lenses, if present and easy to do.	1.3. Details of the supplier of the safety dat	ta sheet
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 Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irritation STOT SE 3 H335 - May cause respiratory irritation Full text of H-phrases: see section 16 22. Label elements GHS-US GHS-US labeling	P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097	
SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixture Classification (GHS-US) Sign Inti. 2 Signal word (GHS-US) H335 - Causes skin irritation H335 - Causes skin irritation H335 - Causes serious eye irritation H335 - May cause respiratory irritation H335 - Causes serious eye irritation H335 - Causes serious eye irritation H335 - Causes serious eye irritation H335 - May cause respiratory irritation H335 - Causes serious eye irritation H335 - Causes serious eye irritation H336 - Ca	1.4. Emergency telephone number	
2.1. Classification of the substance or mixture Classification (GHS-US) Skin Inti. 2 H315 - Causes skin irritation Eye Inti. 2A H319 - Causes serious eye irritation STOT SE 3 H335 - May cause respiratory irritation Full text of H-phrases: see section 16 Execution 2.2. Label elements GHS-US labeling Execution Hazard pictograms (GHS-US) : GHS-US labeling Execution Hazard statements (GHS-US) : Warning : Hazard statements (GHS-US) : H315 - Causes skin irritation H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation H335 - May cause respiratory irritation H335 - May cause respiratory irritation H319 - Causes serious eye irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation H319 - Causes serious eye irritation H316 - Causes serious eye irritation H319 - Causes enclous eye irritation H335 - May cause respiratory irritation H319 - Causes enclous eye irritation Precautionary statements (GHS-US) : P261 - Avoid breathing fumes, mi	Emergency number :	(844) 523-4086 (3E Company - Account 10069)
2.1. Classification of the substance or mixture Classification (GHS-US) Skin Inti. 2 H315 - Causes skin irritation Eye Inti. 2A H319 - Causes serious eye irritation STOT SE 3 H335 - May cause respiratory irritation Full text of H-phrases: see section 16 Execution 2.2. Label elements GHS-US labeling Execution Hazard pictograms (GHS-US) : GHS-US labeling Execution Hazard statements (GHS-US) : Warning : Hazard statements (GHS-US) : H315 - Causes skin irritation H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation H335 - May cause respiratory irritation H335 - May cause respiratory irritation H319 - Causes serious eye irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation H319 - Causes serious eye irritation H316 - Causes serious eye irritation H319 - Causes enclous eye irritation H335 - May cause respiratory irritation H319 - Causes enclous eye irritation Precautionary statements (GHS-US) : P261 - Avoid breathing fumes, mi	SECTION 2: Hazard(s) identification	
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irritation STOT SE 3 H335 - May cause respiratory irritation Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) : GHS07 Signal word (GHS-US) : Warning Hazard statements (GHS-US) : Warning Hazard statements (GHS-US) : Yea : Yea : Yea : Yea : Yea : Yea : Hazard statements (GHS-US) : Warning : Hazard statements (GHS-US) : Precautionary statements (GHS-US) : P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with pleny of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing <td>2.1. Classification of the substance or mixed</td> <td>ture</td>	2.1. Classification of the substance or mixed	ture
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irritation STOT SE 3 H335 - May cause respiratory irritation Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) : GHS07 Signal word (GHS-US) : Warning Hazard statements (GHS-US) : Warning Hazard statements (GHS-US) : Yeach action of the set	Classification (GHS-US)	
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US) Precautionary statements (GHS-US) Page 1 Avoid breathing fumes, mist, spray, vapors P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P333 - If in eyes: Rinse cautiously with water for several minutes. Remove con lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P312 - Specific treatment (see supplemental first aid instructions on this label) </td <td>STOT SE 3 H335 - May cause respiratory irritat Full text of H-phrases: see section 16</td> <td></td>	STOT SE 3 H335 - May cause respiratory irritat Full text of H-phrases: see section 16	
Hazard pictograms (GHS-US) : GHS07 Signal word (GHS-US) : Hazard statements (GHS-US) : Hazard statements (GHS-US) : H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation Precautionary statements (GHS-US) : P261 - Avoid breathing fumes, mist, spray, vapors P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove con lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention		
Signal word (GHS-US) : Warning Hazard statements (GHS-US) : H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation Precautionary statements (GHS-US) : P261 - Avoid breathing fumes, mist, spray, vapors P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P312 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention	•	
Hazard statements (GHS-US) : H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation Precautionary statements (GHS-US) : P261 - Avoid breathing fumes, mist, spray, vapors P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove con lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention	Hazaro pictograms (GHS-US)	GHS07
H319 - Causes serious eye irritation H335 - May cause respiratory irritationPrecautionary statements (GHS-US): P261 - Avoid breathing fumes, mist, spray, vapors P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove con lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention	Signal word (GHS-US) :	Warning
Precautionary statements (GHS-US) : P261 - Avoid breathing fumes, mist, spray, vapors P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove con lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention	Hazard statements (GHS-US) :	H319 - Causes serious eye irritation
P337+P313 - If eye irritation persists: Get medical advice/attention 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	Precautionary statements (GHS-US) :	 P261 - Avoid breathing fumes, mist, spray, vapors P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention 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
2.3. Other hazards	2.3. Other hazards	
No additional information available		

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

2.4. Unknown acute toxicity (GHS US)

Not applicable

Not applicable				
SECTION 3: Composition/information on ingredients				
3.1. Substance				
Substance type	: Mon	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
Perfluoro(1,4-dimethylcyclohexane) (Main constituent)		(CAS No) 374-77-6	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16				
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general	whe	ase of accident or if you feel unwell, seek re possible). Move the affected personnel	away from the	contaminated area.
First-aid measures after inhalation		ove person to fresh air and keep comfort iration. Get medical advice/attention.	able for breathir	ng. If not breathing, give artificial
First-aid measures after skin contact		h with plenty of soap and water. Get med		
First-aid measures after eye contact		ediately flush eyes thoroughly with water ce/attention.	for at least 15 n	ninutes. Get medical
First-aid measures after ingestion		IOT induce vomiting. Never give anything th out with water. Get medical advice/atte		unconscious person. Rinse
4.2. Most important symptoms and effe	ects, both	acute and delayed		
Symptoms/injuries		most important known symptoms and effer and/or in section 11.	ects are describ	ed in the labelling (see section
4.3. Indication of any immediate medic	al attentio	on and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
SECTION 5: Firefighting measures 5.1. Extinguishing media				
		hol resistant foam. Carbon dioxide. Dry p opriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.1. Extinguishing media	appr	opriate for surrounding fire.	owder. Water sp	pray. Use extinguishing media
5.1. Extinguishing media Suitable extinguishing media	appr ubstance	opriate for surrounding fire.		
 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the s 	appr ubstance	opriate for surrounding fire.		
 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the second se	appr ubstance : Ther : Do r	opriate for surrounding fire.	ides. Hydrogen	fluoride.
 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the s Fire hazard 5.3. Advice for firefighters Protection during firefighting SECTION 6: Accidental release means 	appr ubstance : Ther : Do r refer asures	opriate for surrounding fire. or mixture mal decomposition generates: Carbon ov not attempt to take action without suitable to section 8: "Exposure controls/persona	ides. Hydrogen	fluoride.
 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the series Fire hazard 5.3. Advice for firefighters Protection during firefighting SECTION 6: Accidental release measurements 6.1. Personal precautions, protective extended 	appr ubstance : Ther : Do r refer asures quipment	opriate for surrounding fire. or mixture mal decomposition generates: Carbon ov tot attempt to take action without suitable to section 8: "Exposure controls/persona and emergency procedures	tides. Hydrogen protective equip I protection".	fluoride.
 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the s Fire hazard 5.3. Advice for firefighters Protection during firefighting SECTION 6: Accidental release means 	appr ubstance : Ther : Do r refer asures quipment : Evac	opriate for surrounding fire. or mixture mal decomposition generates: Carbon ov not attempt to take action without suitable to section 8: "Exposure controls/persona	tides. Hydrogen protective equip I protection".	fluoride.
 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the series Fire hazard 5.3. Advice for firefighters Protection during firefighting SECTION 6: Accidental release measurements 6.1. Personal precautions, protective extended 	appr ubstance : Ther : Do r refer asures quipment : Evac	opriate for surrounding fire. or mixture mal decomposition generates: Carbon over tot attempt to take action without suitable to section 8: "Exposure controls/personal and emergency procedures cuate unnecessary personnel. Ensure add	tides. Hydrogen protective equip I protection".	fluoride.
 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the s Fire hazard 5.3. Advice for firefighters Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective e General measures 	appr ubstance : Ther : Do r refer asures quipment : Evac vapo	opriate for surrounding fire. or mixture mal decomposition generates: Carbon over tot attempt to take action without suitable to section 8: "Exposure controls/personal and emergency procedures cuate unnecessary personnel. Ensure add	tides. Hydrogen protective equip I protection".	fluoride. oment. For further information ation. Do not breathe gas, fumes,
 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the second se	appr ubstance : Ther : Do r refer asures quipment : Evac vapo	opriate for surrounding fire. or mixture mal decomposition generates: Carbon over tot attempt to take action without suitable to section 8: "Exposure controls/personal and emergency procedures cuate unnecessary personnel. Ensure add or or spray.	tides. Hydrogen protective equip I protection".	fluoride. oment. For further information ation. Do not breathe gas, fumes,
 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the s Fire hazard 5.3. Advice for firefighters Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective e General measures 6.1.1. For non-emergency personnel 	appr ubstance : Ther : Do r refer asures quipment : Evac vapc : Only : Do r	opriate for surrounding fire. or mixture mal decomposition generates: Carbon over tot attempt to take action without suitable to section 8: "Exposure controls/personal and emergency procedures cuate unnecessary personnel. Ensure add or or spray.	tides. Hydrogen protective equip I protection". equate air ventil le protective equip protective equip	fluoride. oment. For further information ation. Do not breathe gas, fumes, uipment may intervene.
 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the s Fire hazard 5.3. Advice for firefighters Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective e General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders 	appr ubstance : Ther : Do r refer asures quipment : Evac vapc : Only : Do r	opriate for surrounding fire. or mixture mal decomposition generates: Carbon over tot attempt to take action without suitable to section 8: "Exposure controls/personal and emergency procedures cuate unnecessary personnel. Ensure add or or spray. qualified personnel equipped with suitable tot attempt to take action without suitable	tides. Hydrogen protective equip I protection". equate air ventil le protective equip protective equip	fluoride. oment. For further information ation. Do not breathe gas, fumes, uipment may intervene.
 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the s Fire hazard 5.3. Advice for firefighters Protection during firefighting SECTION 6: Accidental release media 6.1. Personal precautions, protective e General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 	appr ubstance : Ther : Do r refer asures quipment : Evac vapc : Only : Only : Do r refer	opriate for surrounding fire. or mixture mal decomposition generates: Carbon or not attempt to take action without suitable to section 8: "Exposure controls/personal and emergency procedures cuate unnecessary personnel. Ensure add or or spray. qualified personnel equipped with suitable to section 8: "Exposure controls/personal	tides. Hydrogen protective equip I protection". equate air ventil le protective equip protective equip	fluoride. oment. For further information ation. Do not breathe gas, fumes, uipment may intervene.
 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the series and series are series are series. 5.3. Advice for firefighters Protection during firefighting SECTION 6: Accidental release meta series. 6.1. Personal precautions, protective endines. 6.1.1. For non-emergency personnel Emergency procedures. 6.1.2. For emergency responders. Protective equipment. 6.2. Environmental precautions. 	appr ubstance : Ther : Do r refer asures quipment : Evac vapc : Only : Do r refer ities if pro	opriate for surrounding fire. or mixture mal decomposition generates: Carbon over the attempt to take action without suitable to section 8: "Exposure controls/personal cuate unnecessary personnel. Ensure add or or spray. a qualified personnel equipped with suitable to section 8: "Exposure controls/personal duct enters sewers or public waters.	tides. Hydrogen protective equip I protection". equate air ventil le protective equip protective equip	fluoride. oment. For further information ation. Do not breathe gas, fumes, uipment may intervene.
 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the s Fire hazard 5.3. Advice for firefighters Protection during firefighting SECTION 6: Accidental release media 6.1. Personal precautions, protective e General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. Notify author 	appr ubstance : Ther : Do r refer asures quipment : Evac vapc : Only : Do r refer vities if pro	opriate for surrounding fire. or mixture mal decomposition generates: Carbon over the attempt to take action without suitable to section 8: "Exposure controls/personal cuate unnecessary personnel. Ensure add or or spray. a qualified personnel equipped with suitable to section 8: "Exposure controls/personal duct enters sewers or public waters.	tides. Hydrogen protective equip I protection". equate air ventil le protective equip protective equip I protection".	fluoride. oment. For further information ation. Do not breathe gas, fumes, uipment may intervene.
 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the s Fire hazard 5.3. Advice for firefighters Protection during firefighting SECTION 6: Accidental release med 6.1. Personal precautions, protective e General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. Notify author 6.3. Methods and material for containment 	appr ubstance : Ther : Do r refer asures quipment : Evac vapc : Only : Do r refer titles if pro nent and o : Dike : Take explo	opriate for surrounding fire. or mixture mal decomposition generates: Carbon op tot attempt to take action without suitable to section 8: "Exposure controls/personal te and emergency procedures cuate unnecessary personnel. Ensure add or or spray. r qualified personnel equipped with suitable to section 8: "Exposure controls/personal duct enters sewers or public waters. cleaning up	tides. Hydrogen protective equip I protection". equate air ventil le protective equip I protective equip I protection".	fluoride. oment. For further information ation. Do not breathe gas, fumes, uipment may intervene. oment. For further information

Respiratory protection

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

Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: 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, include	ling any incompatibilities
Storage conditions	: Keep container tightly closed.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
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.	
Eye protection	: Chemical goggles or safety glasses. Face shield.	
Skin and body protection	: Wear suitable protective clothing.	

: In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and chemical properties 0 1 Information on basic physical and chamical propertie

10/00/00 10		
Viscosity, kinematic	: No data available	
Viscosity	: No data available	
Decomposition temperature	: No data available	
Auto-ignition temperature	: No data available	
Log Pow	: No data available	
Solubility	: No data available	
Molecular mass	: 400.06 g/mol	
Specific gravity / density	: 1.85 g/ml	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Vapor pressure	: No data available	
Oxidizing properties	: No data available	
Explosive properties	: No data available	
Explosion limits	: No data available	
Flammability (solid, gas)	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flash point	: No data available	
Boiling point	: 101 °C	
Freezing point	: No data available	
Melting point	: No data available	
рН	: No data available	
Odor threshold	: No data available	
Odor	: No data available	
Color	: No data available	
Physical state	: Liquid	

Safety Data Sheet

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

Viscosit	y, dynamic	: No data available	
9.2.	Other information		
Refracti	ve index	: 1.2897	
SECT	ION 10: Stability and rea	tivity	
	ION 10: Stability and rea Reactivity	tivity	
10.1.	Reactivity	tivity	
10.1.		ctivity	

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTI	ON 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

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

Safety Data Sheet

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

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

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

Perfluoro(1,4-dimethylcyclohexane)

CAS No 374-77-6

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

No additional information available

EU-Regulations

No additional information available

National regulations

Perfluoro(1,4-dimethylcyclohexane) (374-77-6)

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

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:

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

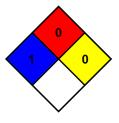
NFPA health hazard

NFPA fire hazard NFPA reactivity : 0 - Materials that will not burn.

injury even if no treatment is given.

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

: 1 - Exposure could cause irritation but only minor residual



100%

Safety Data Sheet

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

HMIS III Rating	
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 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.