Safety Data Sheet	
	Chemours <sup>™</sup>
Freon <sup>™</sup> MO79 (R-422	2A) Refrigerant
Version 3.0	
Revision Date 02/17/2016	Ref. 13000027388
This SDS adheres to the stand requirements in other countrie	dards and regulatory requirements of the United States and may not meet the regulatory s.
SECTION 1. PRODUCT AND	COMPANY IDENTIFICATION
Product name Tradename/Synonym	<ul> <li>Freon<sup>™</sup> MO79 (R-422A) Refrigerant</li> <li>ISCEON<sup>®</sup> MO79 R-422A MO79</li> </ul>
Product Grade/Type	: ASHRAE Refrigerant number designation: R-422A
Product Use	: Refrigerant, For professional users only.
Restrictions on use Manufacturer/Supplier	<ul> <li>Do not use product for anything outside of the above specified uses</li> <li>The Chemours Company FC, LLC 1007 Market Street Wilmington, DE 19899 United States of America</li> </ul>
Product Information Medical Emergency Transport Emergency	<ul> <li>1-844-773-CHEM (outside the U.S. 1-302-773-1000)</li> <li>1-866-595-1473 (outside the U.S. 1-302-773-2000)</li> <li>CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887)</li> </ul>
SECTION 2. HAZARDS IDEN	TIFICATION
Product hazard category Gases under pre	
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Label content Pictogram	
Signal word	: Warning
Hazardous warnings	: Contains gas under pressure; may explode if heated.
Hazardous prevention measures	: Protect from sunlight. Store in a well-ventilated place.

#### Other hazards

Misuse or intentional inhalation abuse may lead to death without warning., Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing., Rapid evaporation of the liquid may cause frostbite.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Pentafluoroethane (HFC-125)	354-33-6	85.1 %
1,1,1,2-Tetrafluoroethane (HFC-134a)	811-97-2	11.5 %



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Isobutane (HC-600a)		75-28-5	3.4 %
SECTION 4. FIRST AID MEAS			
SECTION 4. FIRST AID MEAS	ORES		
General advice	: Never give anything by mou persist or in all cases of dou		n. When symptoms
Inhalation	: Remove from exposure, lie or rest. Artificial respiration and		
Skin contact	: In case of contact, immediat minutes. Take off all contam Wash contaminated clothing gently warming affected area	inated clothing immediately before re-use. Treat for fro	y. Consult a physician.
Eye contact	: In case of contact, immediat minutes. Consult a physiciar		f water for at least 15
Ingestion	: Is not considered a potential	route of exposure.	
Most important symptoms/effects, acute and delayed	: Anaesthetic effects Light-he sensation in the chest, heart dizziness or weakness		
Protection of first-aiders	: If potential for exposure exis equipment.	ts refer to Section 8 for spe	ecific personal protective
Notes to physician	: Because of possible disturba such as epinephrine, that ma should be used with special	ay be used in situations of	
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SECTION 5. FIREFIGHTING MEA	SURES
Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: No applicable data available.
Specific hazards	: Cylinders are equipped with pressure and temperature relief devices, but may still rupture under fire conditions. Decomposition may occur. Contact of welding or soldering torch flame with high concentrations of refrigerant can result in visible changes in the size and colour of the torch flame. This flame effect will only occur in concentrations of product well above the recommended exposure limit. Therefore stop all work and ventilate to disperse refrigerant vapors from the work area before using any open flames. This substance is not flammable in air at temperatures up to 100 deg. C (212 deg. 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 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 purposes. Experimental data have also been reported which indicate combustibility of this substance in the presence of certain concentrations of chlorine.
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Wear neoprene gloves during cleaning up work after a fire.
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Further information	: Cool containers/tanks with water spray. Water runoff should be contained and neutralized prior to release.
	ASE MEASURES G MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up
	ROTECTIVE EQUIPMENT during clean-up.
Safeguards (Personnel)	: Evacuate personnel to safe areas. Ventilate area, especially low or enclosed places where heavy vapours might collect.
Environmental precautions	: Should not be released into the environment. In accordance with local and national regulations.
Spill Cleanup	<ul> <li>Evaporates. Ventilate area using forced ventilation, especially low or enclosed places where heavy vapors might collect.</li> </ul>
Accidental Release Measures	: Avoid open flames and high temperatures. Self-contained breathing apparatus (SCBA) is required if a large release occurs.
ECTION 7. HANDLING AND STO	DRAGE
Handling (Personnel)	: Avoid breathing vapours or mist. Avoid contact with skin, eyes and clothing. Provide sufficient air exchange and/or exhaust in work rooms. For personal protection see section 8.
Handling (Physical Aspects)	: Contact with chlorine or other strong oxidizing agents should also be avoided.
Dust explosion class	: Not applicable
Storage	: Valve protection caps and valve outlet threaded plugs must remain in place unless container is secured with valve outlet piped to use point. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure reducing regulator when connecting cylinder to lower pressure (<3000 psig) piping or systems. Never attempt to lift cylinder by its cap. Use a
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	check valve or trap in the discharge line to prevent hazardous back flow into the cylinder. Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Separate full containers from empty containers. Keep at temperature not exceeding 52°C. Do not store near combustible materials. Avoid area where salt or other corrosive materials are present. The product has an indefinite shelf life when stored properly.
Storage period	: > 10 yr
Storage temperature	: < 52 °C (< 126 °F)
LETION 6. EXPOSORE CONTRO	DLS/PERSONAL PROTECTION
Engineering controls	<ul> <li>Normal ventilation for standard manufacturing procedures is generally adequate. Local exhaust should be used when large amounts are released. Mechanical ventilation should be used in low or enclosed places. Refrigerant Concentration monitors may be necessary to determine vapor concentrations in work areas prior to use of torches or other open flames, or if employees are entering enclosed areas.</li> </ul>
	Normal ventilation for standard manufacturing procedures is generally adequate. Local exhaust should be used when large amounts are released. Mechanical ventilation should be used in low or enclosed places. Refrigerant Concentration monitors may be necessary to determine vapor concentrations in work areas prior to use of torches or other open flames, or if employees are
Engineering controls Personal protective equipment	<ul> <li>Normal ventilation for standard manufacturing procedures is generally adequate. Local exhaust should be used when large amounts are released. Mechanical ventilation should be used in low or enclosed places. Refrigerant Concentration monitors may be necessary to determine vapor concentrations in work areas prior to use of torches or other open flames, or if employees are entering enclosed areas.</li> <li>Under normal manufacturing conditions, no respiratory protection is required</li> </ul>
Engineering controls Personal protective equipment Respiratory protection	<ul> <li>Normal ventilation for standard manufacturing procedures is generally adequate. Local exhaust should be used when large amounts are released. Mechanical ventilation should be used in low or enclosed places. Refrigerant Concentration monitors may be necessary to determine vapor concentrations in work areas prior to use of torches or other open flames, or if employees are entering enclosed areas.</li> <li>Under normal manufacturing conditions, no respiratory protection is required when using this product.</li> </ul>
Engineering controls Personal protective equipment Respiratory protection Hand protection	<ul> <li>Normal ventilation for standard manufacturing procedures is generally adequate. Local exhaust should be used when large amounts are released. Mechanical ventilation should be used in low or enclosed places. Refrigerant Concentration monitors may be necessary to determine vapor concentrations in work areas prior to use of torches or other open flames, or if employees are entering enclosed areas.</li> <li>Under normal manufacturing conditions, no respiratory protection is required when using this product.</li> <li>Additional protection: Impervious gloves</li> <li>Wear safety glasses with side shields. Additionally wear a face shield where the possibility exists for face contact due to splashing, spraying or airborne</li> </ul>
Engineering controls Personal protective equipment Respiratory protection Hand protection Eye protection	<ul> <li>Normal ventilation for standard manufacturing procedures is generally adequate. Local exhaust should be used when large amounts are released. Mechanical ventilation should be used in low or enclosed places. Refrigerant Concentration monitors may be necessary to determine vapor concentrations in work areas prior to use of torches or other open flames, or if employees are entering enclosed areas.</li> <li>Under normal manufacturing conditions, no respiratory protection is required when using this product.</li> <li>Additional protection: Impervious gloves</li> <li>Wear safety glasses with side shields. Additionally wear a face shield where the possibility exists for face contact due to splashing, spraying or airborne contact with this material.</li> <li>Self-contained breathing apparatus (SCBA) is required if a large release</li> </ul>
Engineering controls Personal protective equipment Respiratory protection Hand protection Eye protection Protective measures Exposure Guidelines	<ul> <li>Normal ventilation for standard manufacturing procedures is generally adequate. Local exhaust should be used when large amounts are released. Mechanical ventilation should be used in low or enclosed places. Refrigerant Concentration monitors may be necessary to determine vapor concentrations in work areas prior to use of torches or other open flames, or if employees are entering enclosed areas.</li> <li>Under normal manufacturing conditions, no respiratory protection is required when using this product.</li> <li>Additional protection: Impervious gloves</li> <li>Wear safety glasses with side shields. Additionally wear a face shield where the possibility exists for face contact due to splashing, spraying or airborne contact with this material.</li> <li>Self-contained breathing apparatus (SCBA) is required if a large release occurs.</li> </ul>

Ref. 13000027388 No applicable data available. 1,1,1,2-Tetrafluoroethane (HFC-134a) No applicable data available. Isobutane (HC-600a) TLV (ACGIH) 1,000 ppm STEL		
No applicable data available. 1,1,1,2-Tetrafluoroethane (HFC-134a) No applicable data available. Isobutane (HC-600a) TLV (ACGIH) 1,000 ppm STEL ECTION 9. PHYSICAL AND CHEMICAL PROPERTIES Appearance Physical state : gaseous Form : Liquefied gas Color : slight, ether-like Odor threshold : No applicable data available. pH : neutral Melting point/freezing point : Melting point/range Not available for this mixture. Boiling point/boiling range : Boiling point -46.5°C (-51.7°F). Flash point : does not flash Evaporation rate : No applicable data available.	reon <sup>™</sup> MO79 (R-422A	) Refrigerant
No applicable data available. 1,1,1,2-Tetrafluoroethane (HFC-134a) No applicable data available. Isobutane (HC-600a) TLV (ACGIH) 1,000 ppm STEL ECTION 9. PHYSICAL AND CHEMICAL PROPERTIES Appearance Physical state : gaseous Form : Liquefied gas Color : slight, ether-like Odor threshold : No applicable data available. pH : neutral Melting point/freezing point : Melting point/range Not available for this mixture. Boiling point/boiling range : Boiling point -46.5 °C (-51.7 °F). Flash point : does not flash Evaporation rate : No applicable data available.	ersion 3.0	
1,1,2-Tetrafluoroethane (HFC-134a) No applicable data available.         Isobutane (HC-600a) TLV       (ACGIH)       1,000 ppm       STEL         ECTION 9. PHYSICAL AND CHEMICAL PROPERTIES         Appearance Physical state       : gaseous : Liquefied gas Color       : colourless         Odor       : slight, ether-like         Odor       : slight, ether-like         Odor threshold       : No applicable data available.         pH       : neutral         Melting point/freezing point       : Melting point/range Not available for this mixture.         Boiling point/boiling range       : Boiling point -46.5 °C (-51.7 °F)         Flash point       : does not flash         Evaporation rate       : No applicable data available.	evision Date 02/17/2016	Ref. 130000027388
No applicable data available.         Isobutane (HC-600a) TLV       (ACGIH)       1,000 ppm       STEL         ECTION 9. PHYSICAL AND CHEMICAL PROPERTIES         Appearance Physical state       : gaseous : Liquefied gas Color       : gaseous         Form       : Liquefied gas Color       : colourless         Odor       : slight, ether-like         Odor       : slight, ether-like         Odor threshold       : No applicable data available.         pH       : neutral         Metting point/freezing point       : Metting point/range Not available for this mixture.         Boiling point/boiling range       : Boiling point -46.5 °C (-51.7 °F).         Flash point       : does not flash         Evaporation rate       : No applicable data available.	No applicable data ava	ailable.
TLV       (ACGIH)       1,000 ppm       STEL         ECTION 9. PHYSICAL AND CHEMICAL PROPERTIES         Appearance       9 gaseous         Physical state       : gaseous         Form       : Liquefied gas         Color       : colourless         Odor       : slight, ether-like         Odor threshold       : No applicable data available.         pH       : neutral         Melting point/freezing point       : Melting point/range Not available for this mixture.         Boiling point/boiling range       : Boiling point -46.5 °C (-51.7 °F)         Flash point       : does not flash         Evaporation rate       : No applicable data available.	1,1,1,2-Tetrafluoroethane No applicable data ava	e (HFC-134a) ailable.
Appearance Physical state Form Color: gaseous : colourlessOdor: slight, ether-likeOdor threshold: No applicable data available.pH: neutralMelting point/freezing point Not available for this mixture.Boiling point/boiling range Flash point: Boiling point -46.5 °C (-51.7 °F)Flash point: does not flashEvaporation rate: No applicable data available.		(ACGIH) 1,000 ppm STEL
Odor threshold: No applicable data available.pH: neutralMelting point/freezing point: Melting point/range Not available for this mixture.Boiling point/boiling range: Boiling point -46.5 °C (-51.7 °F)Flash point: does not flashEvaporation rate: No applicable data available.		
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Melting point/freezing point: Melting point/range Not available for this mixture.Boiling point/boiling range: Boiling point -46.5 °C (-51.7 °F)Flash point: does not flashEvaporation rate: No applicable data available.	Appearance Physical state Form Color	: gaseous : Liquefied gas : colourless
Not available for this mixture.Boiling point/boiling range:Boiling point/boiling range:Boiling point -46.5 °C (-51.7 °F)Flash point:does not flashEvaporation rate:No applicable data available.	Appearance Physical state Form Color Odor	: gaseous : Liquefied gas : colourless : slight, ether-like
-46.5 °C (-51.7 °F)       Flash point       : does not flash       Evaporation rate     : No applicable data available.	Appearance Physical state Form Color Odor Odor threshold	<ul> <li>gaseous</li> <li>Liquefied gas</li> <li>colourless</li> <li>slight, ether-like</li> <li>No applicable data available.</li> </ul>
Evaporation rate : No applicable data available.	Appearance Physical state Form Color Odor Odor threshold pH	<ul> <li>gaseous</li> <li>Liquefied gas</li> <li>colourless</li> <li>slight, ether-like</li> <li>No applicable data available.</li> <li>neutral</li> <li>Melting point/range</li> </ul>
	Appearance Physical state Form Color Odor Odor threshold pH Melting point/freezing point	<ul> <li>gaseous</li> <li>Liquefied gas</li> <li>colourless</li> <li>slight, ether-like</li> <li>No applicable data available.</li> <li>neutral</li> <li>Melting point/range Not available for this mixture.</li> <li>Boiling point</li> </ul>
Flammability (solid, gas) : Not applicable	Appearance Physical state Form Color Odor Odor threshold pH Melting point/freezing point Boiling point/boiling range	<ul> <li>gaseous</li> <li>Liquefied gas</li> <li>colourless</li> <li>slight, ether-like</li> <li>No applicable data available.</li> <li>neutral</li> <li>Melting point/range Not available for this mixture.</li> <li>Boiling point -46.5 °C (-51.7 °F)</li> </ul>
	Appearance Physical state Form Color Odor Odor threshold pH Melting point/freezing point Boiling point/boiling range Flash point	<ul> <li>gaseous</li> <li>Liquefied gas</li> <li>colourless</li> <li>slight, ether-like</li> <li>No applicable data available.</li> <li>neutral</li> <li>Melting point/range Not available for this mixture.</li> <li>Boiling point -46.5 °C (-51.7 °F)</li> <li>does not flash</li> </ul>
Upper explosion limit : Method: None per ASTM E681	Appearance Physical state Form Color Odor Odor threshold pH Melting point/freezing point Boiling point/boiling range Flash point Evaporation rate	<ul> <li>gaseous</li> <li>Liquefied gas</li> <li>colourless</li> <li>slight, ether-like</li> <li>No applicable data available.</li> <li>neutral</li> <li>Melting point/range Not available for this mixture.</li> <li>Boiling point -46.5 °C (-51.7 °F)</li> <li>does not flash</li> <li>No applicable data available.</li> </ul>



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Lower explosion limit	: Method: None per ASTM E681
Vapor pressure	: 12,757 hPa at 25 °C (77 °F)
Vapor density	: 4.0 at 25°C (77°F) and 1013 hPa (Air=1.0)
Specific gravity (Relative density)	: 1.14 at 25 °C (77 °F) at (1,013 hPa)
Water solubility	: 1.0 g/l at 25 °C (77 °F)
Solubility(ies)	: No applicable data available.
Partition coefficient: n- octanol/water	: No applicable data available.
Auto-ignition temperature	: No applicable data available.
Decomposition temperature	: No applicable data available.
Viscosity, kinematic	: No applicable data available.
Viscosity, dynamic	: No applicable data available.
% Volatile	: 100 %

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability	<ul><li>No applicable data available.</li><li>Stable under recommended storage conditions.</li></ul>
Possibility of hazardous reactions	: Polymerization will not occur.
Conditions to avoid	: The product is not flammable in air under ambient conditions of temperature and pressure. When pressurised with air or oxygen, the mixture may become flammable. Certain mixtures of HCFCs or HFCs with chlorine may become flammable or reactive under certain conditions.
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Incompatible materials :	Alkali metals Alkaline earth metals, Powdered metals, Powdered metal salts
products	Decomposition products are hazardous., This material can be decomposed by high temperatures (open flames, glowing metal surfaces, etc.) forming hydrofluoric acid and possibly carbonyl fluoride., These materials are toxic and irritating., Avoid contact with decomposition products
SECTION 11. TOXICOLOGICAL INFO	RMATION
Pentafluoroethane (HFC-125) Inhalation 4 h LC50	: > 800000 ppm , Rat
Inhalation No Observed Adverse Effect Concentration Inhalation Low Observed Adverse Effect	<ul> <li>75000 ppm , Dog Cardiac sensitization</li> <li>100000 ppm , Dog Cardiac sensitization</li> </ul>
Concentration (LOAEC) Skin sensitization	: Does not cause respiratory sensitisation., human
Repeated dose toxicity	: Inhalation Rat - gas No toxicologically significant effects were found.
Carcinogenicity	<ul> <li>Not classifiable as a human carcinogen.</li> <li>Overall weight of evidence indicates that the substance is not carcinogenic.</li> </ul>
Mutagenicity	<ul> <li>Animal testing did not show any mutagenic effects.</li> <li>Evidence suggests this substance does not cause genetic damage in cultured mammalian cells.</li> <li>Did not cause genetic damage in cultured bacterial cells.</li> </ul>
Reproductive toxicity	: No toxicity to reproduction Animal testing showed no reproductive toxicity.
Teratogenicity	: Animal testing showed no developmental toxicity.



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Further information	: Cardiac sensitisation threshold limit : 490000 mg/m3
,1,1,2-Tetrafluoroethane (HFC-134a) Inhalation 4 h LC50	: > 567000 ppm , Rat
Inhalation No Observed Adverse Effect	: 40000 ppm , Dog Cardiac sensitization
Concentration Inhalation Low Observed Adverse Effect	: 80000 ppm , Dog Cardiac sensitization
Concentration (LOAEC) Skin irritation	: No skin irritation, Rabbit
Eye irritation	: No eye irritation, Rabbit
Skin sensitization	: Does not cause skin sensitisation., Guinea pig
	Does not cause respiratory sensitisation., Rat
Repeated dose toxicity	: Inhalation Rat
	gas NOAEL: 50000, No toxicologically significant effects were found.
Carcinogenicity	<ul> <li>Not classifiable as a human carcinogen.</li> <li>Overall weight of evidence indicates that the substance is not carcinogenic.</li> </ul>
Mutagenicity	<ul> <li>Animal testing did not show any mutagenic effects.</li> <li>Tests on bacterial or mammalian cell cultures did not show mutagenic effects.</li> </ul>
Reproductive toxicity	: No toxicity to reproduction No effects on or via lactation Animal testing showed no reproductive toxicity.
Teratogenicity	: Animal testing showed no developmental toxicity.
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Further	information	:	Cardiac sensitisation threshold limit : 334000 mg/m3
Isobutane (HC-600a) Inhalatio	) on 4 h LC50	:	276808 ppm , Rat The toxicological data has been taken from products of similar composition.
Inhalatio	on 4 h LC50	:	> 31 mg/l , Rat
Adverse		:	50000 ppm , Dog Cardiac sensitization
Concentration (LOAEC) Inhalation No Observed Adverse Effect Concentration	:	25000 ppm , Dog Cardiac sensitization	
Dermal		:	Not applicable
Oral		:	Not applicable
Skin irrit	ation	:	No skin irritation, Not tested on animals Not expected to cause skin irritation based on expert review of the properties of the substance.
Eye irrit	ation	:	No eye irritation, Not tested on animals Not expected to cause eye irritation based on expert review of the properties of the substance.
Skin se	nsitization	:	Not tested on animals Not expected to cause sensitization based on expert review of the properties of the substance.
Repeate	ed dose toxicity	:	Inhalation Rat -
			No toxicologically significant effects were found.
Mutage	nicity	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Animal testing did not show any mutagenic effects.
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Reproductive toxicity	: No toxicity to reproduction Animal testing showed no reproductive toxicity.
Teratogenicity	: Animal testing showed no developmental toxicity.
Further information	: Cardiac sensitisation threshold limit : 118.9 mg/m3
Program (NTP) Report on C	A.6. The classifications may differ from those listed in the National Toxicology Carcinogens (latest edition) or those found to be a potential carcinogen in the search on Cancer (IARC) Monographs (latest edition).
to HazCom 2012, Appendix Program (NTP) Report on C International Agency for Res None of the components pre by IARC, NTP, or OSHA, as SECTION 12. ECOLOGICAL INFORM Aquatic Toxicity	A.6. The classifications may differ from those listed in the National Toxicology Carcinogens (latest edition) or those found to be a potential carcinogen in the search on Cancer (IARC) Monographs (latest edition). esent in this material at concentrations equal to or greater than 0.1% are listed s a carcinogen.
to HazCom 2012, Appendix Program (NTP) Report on C International Agency for Res None of the components pre by IARC, NTP, or OSHA, as <b>ECTION 12. ECOLOGICAL INFORM</b> Aquatic Toxicity	A.6. The classifications may differ from those listed in the National Toxicology Carcinogens (latest edition) or those found to be a potential carcinogen in the search on Cancer (IARC) Monographs (latest edition). esent in this material at concentrations equal to or greater than 0.1% are listed s a carcinogen.
to HazCom 2012, Appendix Program (NTP) Report on C International Agency for Res None of the components pre by IARC, NTP, or OSHA, as <b>ECTION 12. ECOLOGICAL INFORM</b> Aquatic Toxicity Pentafluoroethane (HFC-125)	<ul> <li>A.6. The classifications may differ from those listed in the National Toxicology Carcinogens (latest edition) or those found to be a potential carcinogen in the search on Cancer (IARC) Monographs (latest edition).</li> <li>esent in this material at concentrations equal to or greater than 0.1% are listed is a carcinogen.</li> </ul> MATION <ul> <li>Concorhynchus mykiss (rainbow trout) 450 mg/l</li> </ul>
to HazCom 2012, Appendix Program (NTP) Report on C International Agency for Res None of the components pre by IARC, NTP, or OSHA, as <b>ECTION 12. ECOLOGICAL INFORM</b> Aquatic Toxicity Pentafluoroethane (HFC-125) 96 h LC50	<ul> <li>A.6. The classifications may differ from those listed in the National Toxicology Carcinogens (latest edition) or those found to be a potential carcinogen in the search on Cancer (IARC) Monographs (latest edition).</li> <li>esent in this material at concentrations equal to or greater than 0.1% are listed is a carcinogen.</li> <li>MATION</li> <li>: Oncorhynchus mykiss (rainbow trout) 450 mg/l Information given is based on data obtained from similar substances.</li> <li>: Algae 142 mg/l</li> </ul>
to HazCom 2012, Appendix Program (NTP) Report on C International Agency for Res None of the components pre by IARC, NTP, or OSHA, as ECTION 12. ECOLOGICAL INFORM Aquatic Toxicity entafluoroethane (HFC-125) 96 h LC50 96 h ErC50	<ul> <li>A.6. The classifications may differ from those listed in the National Toxicology Carcinogens (latest edition) or those found to be a potential carcinogen in the search on Cancer (IARC) Monographs (latest edition).</li> <li>esent in this material at concentrations equal to or greater than 0.1% are listed is a carcinogen.</li> <li>MATION</li> <li>Concorhynchus mykiss (rainbow trout) 450 mg/l Information given is based on data obtained from similar substances.</li> <li>Algae 142 mg/l Information given is based on data obtained from similar substances.</li> <li>Pseudokirchneriella subcapitata (green algae) 13.2 mg/l</li> </ul>
to HazCom 2012, Appendix Program (NTP) Report on C International Agency for Res None of the components pro by IARC, NTP, or OSHA, as <b>SECTION 12. ECOLOGICAL INFORM</b> Aquatic Toxicity Pentafluoroethane (HFC-125) 96 h LC50 96 h ErC50 72 h NOEC	<ul> <li>A.6. The classifications may differ from those listed in the National Toxicology Carcinogens (latest edition) or those found to be a potential carcinogen in the search on Cancer (IARC) Monographs (latest edition).</li> <li>esent in this material at concentrations equal to or greater than 0.1% are listed is a carcinogen.</li> <li>MATION</li> <li>Concorhynchus mykiss (rainbow trout) 450 mg/l Information given is based on data obtained from similar substances.</li> <li>Algae 142 mg/l Information given is based on data obtained from similar substances.</li> <li>Pseudokirchneriella subcapitata (green algae) 13.2 mg/l Information given is based on data obtained from similar substances.</li> <li>Daphnia magna (Water flea) 980 mg/l Information given is based on data obtained from similar substances.</li> </ul>



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		Information given is based on data obtained from similar substances.
72 h	NOEC	: Pseudokirchneriella subcapitata (green algae) 13.2 mg/l Information given is based on data obtained from similar substances.
48 h	EC50	: Daphnia magna (Water flea) 980 mg/l
obutane (HC-600 96 h	0a) LC50	: Fish 24.11 mg/l
72 h	EC50	: Algae 7.71 mg/l
48 h	EC50	: Daphnia (water flea) 14.22 mg/l
ECTION 13. DIS Waste disposa Product	peri Stat	to be used after re-conditioning. Recover by distillation or remove to a mitted waste disposal facility. Comply with applicable Federal, te/Provincial and Local Regulations.
ECTION 13. DIS Waste disposa	al methods - : Car peri Stat	be used after re-conditioning. Recover by distillation or remove to a nitted waste disposal facility. Comply with applicable Federal,
ECTION 13. DIS Waste disposa Product Contaminated	al methods - : Car peri Stat	n be used after re-conditioning. Recover by distillation or remove to a mitted waste disposal facility. Comply with applicable Federal, te/Provincial and Local Regulations. pty pressure vessels should be returned to the supplier.
ECTION 13. DIS Waste disposa Product Contaminated	al methods - : Car peri Stat	n be used after re-conditioning. Recover by distillation or remove to a mitted waste disposal facility. Comply with applicable Federal, te/Provincial and Local Regulations. pty pressure vessels should be returned to the supplier.
ECTION 13. DIS Waste disposa Product Contaminated	al methods - : Car peru Stat packaging : Emp ANSPORT INFORMATIC UN number Proper shipping nar	<ul> <li>be used after re-conditioning. Recover by distillation or remove to a mitted waste disposal facility. Comply with applicable Federal, te/Provincial and Local Regulations.</li> <li>pty pressure vessels should be returned to the supplier.</li> <li><b>N</b> <ul> <li>1078</li> <li>Refrigerant gases, n.o.s. (1,1,1,2-Tetrafluoroethane, Pentafluoroethane)</li> </ul> </li> </ul>
ECTION 13. DIS Waste disposa Product Contaminated	al methods - : Car peri Stat packaging : Em ANSPORT INFORMATIC UN number	<ul> <li>be used after re-conditioning. Recover by distillation or remove to a mitted waste disposal facility. Comply with applicable Federal, te/Provincial and Local Regulations.</li> <li>pty pressure vessels should be returned to the supplier.</li> <li><b>N</b> <ul> <li>1078</li> <li>Refrigerant gases, n.o.s. (1,1,1,2-Tetrafluoroethane,</li> </ul> </li> </ul>
ECTION 13. DIS Waste disposa Product Contaminated ECTION 14. TRA DOT	al methods - : Car peri Stat packaging : Emp ANSPORT INFORMATIC UN number Proper shipping nar Class Labelling No.	<ul> <li>be used after re-conditioning. Recover by distillation or remove to a mitted waste disposal facility. Comply with applicable Federal, te/Provincial and Local Regulations.</li> <li>pty pressure vessels should be returned to the supplier.</li> <li><b>N</b> <ul> <li>1078</li> <li>ne</li> <li>Refrigerant gases, n.o.s. (1,1,1,2-Tetrafluoroethane, Pentafluoroethane)</li> <li>2.2</li> <li>2.2</li> <li>1078</li> </ul> </li> </ul>

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#### Freon<sup>™</sup> MO79 (R-422A) Refrigerant Version 3.0 Revision Date 02/17/2016 Ref. 130000027388 Labelling No. : 2.2 IMDG UN number : 1078 Proper shipping name : REFRIGERANT GAS, N.O.S. (1,1,1,2-Tetrafluoroethane, Pentafluoroethane) Class : 2.2 Labelling No. : 2.2 SECTION 15. REGULATORY INFORMATION : This material does not contain any chemical components with known CAS SARA 313 Regulated numbers that exceed the threshold (De Minimis) reporting levels established Chemical(s) by SARA Title III, Section 313. PA Right to Know : Substances on the Pennsylvania Hazardous Substances List present at a Regulated Chemical(s) concentration of 1% or more (0.01% for Special Hazardous Substances): Isobutane (HC-600a) NJ Right to Know : Substances on the New Jersey Workplace Hazardous Substance List present Regulated Chemical(s) at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens): Isobutane (HC-600a) California Prop. 65 : Chemicals known to the State of California to cause cancer, birth defects or any other harm: none known

### SECTION 16. OTHER INFORMATION

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# Freon<sup>™</sup> MO79 (R-422A) Refrigerant

Version 3.0

Revision Date 02/17/2016

Ref. 130000027388

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Significant change from previous version is denoted with a double bar.

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