

Safety Data Sheet PTG-4027 according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication. Date of issue: 05/15/2015 Revision date: 10/20/2015

SECTION: 1. Product and company identif	ication	
1.1. Product identifier		
	ture MSA P/N 10077765	
	n-flammable, Non-oxidizing gas mixture cor	ataining one or more of the following
con	ponents: R-401A, R-402A, R-404A, R-407	
MSA Part Number(s) : 100)77765	
1.2. Relevant identified uses of the substance of	r mixture and uses advised against	
Use of the substance/mixture : Indu	strial use. Use as directed.	
1.3. Details of the supplier of the safety data she	et	
MSA Corporate Center 1000 Cranberry Woods Drive Cranberry Township, PA 16066 - USA Phone: 724-776-8600 Info.us@msasafety.com		
1.4. Emergency telephone number		
No additional information available		
SECTION 2: Hazards identification		
2.1. Classification of the substance or mixture		
Classification (GHS-US)		
Compressed gas H280		
Compressed gas H260		
2.2. Label elements		
	•	
GHS-US labeling Hazard pictograms (GHS-US)	GH504	
Signal word (GHS-US) : WA	RNING	
	80 - CONTAINS GAS UNDER PRESSURE	; MAY EXPLODE IF HEATED
	0+P403 - Protect from sunlight. Store in a	well-ventilated place
2.3. Other hazards		
2.4. Unknown acute toxicity (GHS-US)	additional information available	
	data available	
SECTION 3: Composition/information on i	ngredients	
3.1. Substance		
	applicable	
3.2. Mixture		
Name	Product identifier	%
Nitrogen	(CAS No) 7727-37-9	76.5 - 99.9999
Oxygen	(CAS No) 7782-44-7	0 - 20.9
Pentafluoroethane	(CAS No) 354-33-6	0 - 1.44
Chlorodifluoromethane		0 - 0.91
Trifluoroethane (R143a)	(CAS No) 420-46-2	0 - 0.52
Tetrafluoroethane (R134a)	(CAS No) 811-97-2	0 - 0.44
Chlorotetrafluoroethane (R124a)	(CAS No) 2837-89-0	0 - 0.34
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ine s	afety Company Date of is	Sue. 05/15/2015			
Name		Product ide	ntifier	%	
Difluoro	methane (R32)	(CAS No) 75-10	-5	0 - 0.2	
1,1-Difl	uoroethane	(CAS No) 75-37	-6	0 - 0.13]
Propan	e	(CAS No) 74-98	-6	0 - 0.02	
ECT	ION 4: First aid measures				
.1.	Description of first aid measures				
	I measures after inhalation		e to fresh air. If not brea rsonnel may give oxyge		al respiration. If breathing is n.
irst-aic	I measures after skin contact		expected from this prod		
	I measures after eye contact	: Immediately flush e	yes thoroughly with wate alls to ensure that all su	er for at least 15 m	inutes. Hold the eyelids open and thoroughly. Contact an
irst-aic	I measures after ingestion	: Ingestion is not con	sidered a potential route	of exposure.	
.2.	Most important symptoms and effect	s, both acute and del	ayed		
		No additional inform	ation available		
.3.	Indication of any immediate medical	attention and special	treatment needed		
None.	intervention of any initionate motical	attention and special	a satirione necucia		
SECT	ION 5: Firefighting measures				
.1.	Extinguishing media				
uitable	extinguishing media	: Use extinguishing m	edia appropriate for sur	rounding fire.	
.2.	Special hazards arising from the sub	stance or mixture			
eactiv	ity	: No reactivity hazard	other than the effects d	escribed in sub-se	ections below.
.3.	Advice for firefighters				
	ting instructions	and protective cloth flow of gas if safe to safe to do so. Remo	ing. Immediately cool co do so, while continuing ove containers from area	ontainers with wat cooling water spr of fire if safe to d	ned breathing apparatus (SCBA) er from maximum distance. Stop ay. Remove ignition sources if o so. On-site fire brigades must ls under 29 CFR 1910 Subpart
pecial	protective equipment for fire fighters	: Standard protective fighters.	clothing and equipment	(Self Contained E	Breathing Apparatus) for fire
SECT	ION 6: Accidental release meas	ures			
.1.	Personal precautions, protective equ		y procedures		
5.1.1.	For non-emergency personnel				
	r or non-emergency personner	No additional inform	ation available		
.1.2.	For emergency responders				
		No additional inform	ation available		
.2.	Environmental precautions				
		Dispose of contents		e with local/region	nt. Prevent soil and water pollution. al/national/international regulations.
.3.	Methods and material for containmer	it and cleaning up			
		No additional inform	ation available		
6.4.	Reference to other sections				
		See also sections 8	and 13		
		000 0100 20010115 0	and 10.		

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SECTION 7: Handling and storage

7.1. Precautions for safe handling	
	Wear leather safety gloves and safety shoes when handling cylinders. Protect cylinders from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g., wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. If the valve is hard to open, discontinue use and contact your supplier. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents. For other precautions in using this product, see section 16.
7.2. Conditions for safe storage, including	any incompatibilities
Storage conditions :	Store in a cool, well-ventilated place. Store and use with adequate ventilation. Store only where temperature will not exceed 125°F (52°C). Firmly secure containers upright to keep them from falling or being knocked over. Install valve protection cap, if provided, firmly in place by hand. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods.
	OTHER PRECAUTIONS FOR HANDLING, STORAGE, AND USE: When handling product under pressure, use piping and equipment adequately designed to withstand the pressures to be encountered. Never work on a pressurized system. Use a back flow preventive device in the piping. Gases can cause rapid suffocation because of oxygen deficiency; store and use with adequate ventilation. If a leak occurs, close the container valve and blow down the system in a safe and environmentally correct manner in compliance with all international, federal/national, state/provincial, and local laws; then repair the leak. Never place a container where it may become part of an electrical circuit.

7.3. Specific end use(s)

None.

SECTION 8: Expo	sure controls/personal protection	
8.1. Control parameters		
Pentafluoroethane (3	54-33-6)	
ACGIH	Not established	
USA OSHA	Not established	
Trifluoroethane (R14	a) (420-46-2)	
ACGIH	Not established	
USA OSHA	Not established	
Tetrafluoroethane (R	134a) (8 ¹ 1-97-2)	
ACGIH	Not established	
USA OSHA	Not established	
Difluoromethane (R3	2) (75-10-5)	
ACGIH	Not established	
USA OSHA	Not established	
Nitrogen (7727-37-9)		
ACGIH	Not established	
USA OSHA	Not established	
Oxygen (7782-44-7)		
ACGIH	Not established	
USA OSHA	Not established	

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Chlorodifluoromethane ACGIH Not established USA OSHA Not established Propane (74-98-6) USA OSHA OSHA PEL (TWA) (mg/m³) 1800 mg/m³ USA OSHA OSHA PEL (TWA) (ppm) 1000 ppm ACGIH Not established 8.2. **Exposure controls** Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Ensure exposure is below occupational exposure limits (where available). : Wear safety glasses when handling cylinders; vapor-proof goggles and a face shield during Eve protection cylinder changeout or whenever contact with product is possible. Select eye protection in accordance with OSHA 29 CFR 1910.133. Skin and body protection : Wear metatarsal shoes and work gloves for cylinder handling, and protective clothing where needed. Wear appropriate chemical gloves during cylinder changeout or wherever contact with product is possible. Select per OSHA 29 CFR 1910.132, 1910.136, and 1910.138. Respiratory protection : When workplace conditions warrant respirator use, follow a respiratory protection program that meets OSHA 29 CFR 1910.134, ANSI Z88.2, or MSHA 30 CFR 72.710 (where applicable). Use an air-supplied or air-purifying cartridge if the action level is exceeded. Ensure that the respirator has the appropriate protection factor for the exposure level. If cartridge type respirators are used, the cartridge must be appropriate for the chemical exposure (e.g., an organic vapor cartridge). For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA). Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmospheres. : Wear cold insulating gloves when transfilling or breaking transfer connections. Thermal hazard protection

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	d chemical properties
Physical state	: Gas
Color	: Colorless
Odor	: No data available
Odor threshold	: No data available
рН	: Not applicable.
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: Not applicable.
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: Not applicable.
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: No data available
Log Pow	: Not applicable.
Log Kow	: Not applicable.
Viscosity, kinematic	: Not applicable.
Viscosity, dynamic	: Not applicable.
Explosive properties	: Not applicable.

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Oxidizing properties Explosion limits		: None.
		: No data available
9.2.	Other information	
		No additional information available
SECT	ION 10: Stability and reactivity	
10.1.	Reactivity	
		No reactivity hazard other than the effects described in sub-sections below.
10.2.	Chemical stability	
		Stable under normal conditions.
10.3.	Possibility of hazardous reactions	
		None.
10.4.	Conditions to avoid	
		None.
10.5.	Incompatible materials	
		None.
10.6.	Hazardous decomposition products	
		None.
SECT	ION 11: Toxicological information	

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Chlorotetrafluoroethane (R124a) (2837-89	-0)
LC50 inhalation rat (ppm)	285000 ppm/1h
Trifluoroethane (R143a) (420-46-2)	
LC50 inhalation rat (mg/l)	> 54 lb/h (Exposure time: 4 h)
Tetrafluoroethane (R134a) (811-97-2)	
LC50 inhalation rat (mg/l)	1500 g/m ³ (Exposure time: 4 h)
LC50 inhalation rat (ppm)	100000 ppm/1h
ATE US (vapors)	1500.000 mg/l/4h
ATE US (dust, mist)	1500.000 mg/l/4h
Difluoromethane (R32) (75-10-5)	
LC50 inhalation rat (mg/l)	1890 g/m ³ (Exposure time: 4 h)
LC50 inhalation rat (ppm)	100000 ppm/1h
ATE US (vapors)	1890.000 mg/l/4h
ATE US (dust, mist)	1890.000 mg/l/4h
Propane (74-98-6)	
LC50 inhalation rat (mg/l)	658 mg/l/4h
ATE US (vapors)	658.000 mg/l/4h
ATE US (dust, mist)	658.000 mg/l/4h
Skin corrosion/irritation	: Not classified
	pH: Not applicable.
Serious eye damage/irritation	: Not classified
	pH: Not applicable.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
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Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: No known ecological damage caused by this product.

10.0		
12.2.	Persistence	and degradability

12.2. Persistence and degradability	
PTG-4027	
Persistence and degradability	No ecological damage caused by this product.
1,1-Difluoroethane (75-37-6)	
Persistence and degradability	No data available. Study scientifically unjustified.
Chlorotetrafluoroethane (R124a) (2837-89-0)	
Persistence and degradability	No data available.
Trifluoroethane (R143a) (420-46-2)	
Persistence and degradability	Not readily biodegradable.
Tetrafluoroethane (R134a) (811-97-2)	
Persistence and degradability	Not readily biodegradable.
Difluoromethane (R32) (75-10-5)	
Persistence and degradability	Not readily biodegradable.
Nitrogen (7727-37-9)	
Persistence and degradability	No ecological damage caused by this product.
Oxygen (7782-44-7)	
Persistence and degradability	No ecological damage caused by this product.
Propane (74-98-6)	
Persistence and degradability	The substance is biodegradable. Unlikely to persist.
12.3. Bioaccumulative potential	
PTG-4027	
Log Pow	Not applicable.
Log Kow	Not applicable.
Bioaccumulative potential	No ecological damage caused by this product.
1,1-Difluoroethane (75-37-6)	
Log Pow	0.75
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Chlorotetrafluoroethane (R124a) (2837-89-0)	
Log Pow	1.67
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Trifluoroethane (R143a) (420-46-2)	
Log Pow	Not known.
Bioaccumulative potential	No data available.
Tetrafluoroethane (R134a) (811-97-2)	
Log Pow	0.94
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Difluoromethane (R32) (75-10-5)	

Bioaccumulative potential EN (English US)

Log Pow

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Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.

0.2



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Nitrogen (7727-37-9) Not applicable. Log Pow Log Kow Not applicable. Bioaccumulative potential No ecological damage caused by this product. Oxygen (7782-44-7) Log Pow Not applicable. Log Kow Not applicable. Bioaccumulative potential No ecological damage caused by this product. Propane (74-98-6) 2.36 Log Pow Not applicable. Log Kow Bioaccumulative potential Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 12.4. **Mobility in soil** PTG-4027 Mobility in soil No data available. 1,1-Difluoroethane (75-37-6) Ecology - soil Because of its high volatility, the product is unlikely to cause ground or water pollution. Chlorotetrafluoroethane (R124a) (2837-89-0) Ecology - soil Because of its high volatility, the product is unlikely to cause ground or water pollution. Trifluoroethane (R143a) (420-46-2) Ecology - soil Because of its high volatility, the product is unlikely to cause ground or water pollution. Tetrafluoroethane (R134a) (811-97-2) Because of its high volatility, the product is unlikely to cause ground or water pollution. Ecology - soil Difluoromethane (R32) (75-10-5) Ecology - soil Because of its high volatility, the product is unlikely to cause ground or water pollution. Nitrogen (7727-37-9) Mobility in soil No data available. No ecological damage caused by this product. Ecology - soil Oxygen (7782-44-7) Mobility in soil No data available. Ecology - soil No ecological damage caused by this product. Propane (74-98-6) Mobility in soil No data available. Because of its high volatility, the product is unlikely to cause ground or water pollution. Ecology - soil 12.5. Other adverse effects Effect on ozone layer : None.

SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
Waste disposal recommendations	: Do not attempt to dispose of residual or unused quantities. Return container to supplier.
SECTION 14: Transport information	
In accordance with DOT	
Transport document description	: UN1956 Compressed gas, n.o.s., 2.2
UN-No.(DOT)	: UN1956
Proper Shipping Name (DOT)	: Compressed gas, n.o.s.

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Transport hazard class(es) (DOT)

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: 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115



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Hazard labels (DOT)	: 2.2 - Non-flammable gas
	2
DOT Symbols	: G - Identifies proper shipping name (PSN) requiring the addition of technical name(s) in parentheses following the PSN.
Additional information	
Emergency Response Guide (ERG) Number	: 126
Other information	: No supplementary information available.
Special transport precautions	 Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure there is adequate ventilation Ensure that containers are firmly secured Ensure cylinder valve is closed and not leaking Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
Transport by sea	
UN-No. (IMDG)	: 1956
Proper Shipping Name (IMDG)	: COMPRESSED GAS, N.O.S.
Class (IMDG)	: 2.2 - Non-flammable, non-toxic gases
Limited quantities (IMDG)	: 120ml
EmS-No. (1)	: F-C
MFAG-No	: 620
EmS-No. (2)	: S-V
Air transport	
UN-No.(IATA)	: 1956
Proper Shipping Name (IATA)	: COMPRESSED GAS, N.O.S.
Class (IATA)	: 2
Instruction "cargo" (ICAO)	: 200
Instruction "passenger" (ICAO)	: 200
Instruction "passenger" - Limited quantities (ICAO)	: FORBIDDEN
SECTION 15: Regulatory information	on la
15.1. US Federal regulations	
Chlorotetrafluoroethane (R124a) (2837-89-0	
Listed on the United States TSCA (Toxic Subs Listed on United States SARA Section 313	tances Control Act) inventory
SARA Section 313 - Emission Reporting	1.0 %
	· · · ·

15.2. International regulations

CANADA

1,1-Difluoroethane (75-37-6)
Listed on the Canadian DSL (Domestic Substances List)

Chlorotetrafluoroethane (R124a) (2837-89-0)

Listed on the Canadian DSL (Domestic Substances List)



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Pentafluoroethane (354-33-6)

Listed on the Canadian DSL (Domestic Substances List)

Trifluoroethane (R143a) (420-46-2)

Listed on the Canadian DSL (Domestic Substances List)

Tetrafluoroethane (R134a) (811-97-2)

Listed on the Canadian DSL (Domestic Substances List)

Difluoromethane (R32) (75-10-5)

Nitrogen (7727-37-9)

Listed on the Canadian DSL (Domestic Substances List)

Oxygen (7782-44-7)

Listed on the Canadian DSL (Domestic Substances List)

Propane (74-98-6)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Chlorotetrafluoroethane (R124a) (2837-89-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

15.2.2. National regulations

Chlorotetrafluoroethane (R124a) (2837-89-0)

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 the Japanese ISHL (Industrial Safety and Health Law) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Japanese Pollutant Release and Transfer Register Law (PRTR Law)

15.3. US State regulations

PTG-4027()	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No

1,1-Difluoroethane (75-37-6)

U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	No	No	No	

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Chlorotetrafluoroethane				L
U.S California -	U.S California -	U.S California -	U.S California - Proposition	No significance risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	65 - Reproductive Toxicity -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Male	
		Female		
No	No	No	No	
Pentafluoroethane (354-	33-6)			•
U.S California -	U.S California -	U.S California -	U.S California - Proposition	No significance risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	65 - Reproductive Toxicity -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Male	· · · ·
5	, ,	Female		
No	No	No	No	
Trifluoroethane (R143a)	(420-46-2)		•	1
U.S California -	U.S California -	U.S California -	U.S California - Proposition	No significance risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	65 - Reproductive Toxicity -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Male	(-)
		Female		
No	No	No	No	
Tetrafluoroethane (R134	a) (811-97-2)			
U.S California -	U.S California -	U.S California -	U.S California - Proposition	No significance risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	65 - Reproductive Toxicity -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Male	(NORE)
Carcinogens List	Developmental Toxicity	Female	IVIAIC	
No	No	No	No	
Difluoromethane (R32) (7	75-10-5)			
U.S California -	U.S California -	U.S California -	LLC Colifornia Dronosition	No cignificance rick law
			U.S California - Proposition	No significance risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	65 - Reproductive Toxicity -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Male	
No	No	No	No	
Nitrogen (7727-37-9)				
U.S California -	U.S California -	U.S California -	U.S California - Proposition	No significance risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	65 - Reproductive Toxicity -	(NSRL)
				(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Male	
No	No	No	No	
Oxygen (7782-44-7)				
U.S California -	U.S California -	U.S California -	U.S California - Proposition	No significance risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	65 - Reproductive Toxicity -	(NSRL)
	Developmental Toxicity	Reproductive Toxicity -	Male	(NORL)
Carcinogens List	Developmental Toxicity	Female	Male	
No	No	No	No	
Chlorodifluoromethane				I
U.S California -	U.S California -	U.S California -	U.S California - Proposition	No significance risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	65 - Reproductive Toxicity -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Male	
Carcinogens List		Female		
No	No	No	No	
Propane (74-98-6)				l
U.S California -	U.S California -	U.S California -	U.S California - Proposition	No significance risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	65 - Reproductive Toxicity -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Male	()
	Developmental robiolty	Female	Maic	
No	No	No	No	

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1,1-Difluoroethane (75-37-6) U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List Chlorotetrafluoroethane (R124a) (2837-89-0) U.S. - New Jersey - Right to Know Hazardous Substance List Nitrogen (7727-37-9) U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List Oxygen (7782-44-7) U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List Propane (74-98-6) U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Other information

: When you mix two or more chemicals, you can create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an industrial hygienist or other trained person when you evaluate the end product. Before using any plastics, confirm their compatibility with this product.

Praxair asks users of this product to study this SDS and become aware of the product hazards and safety information. To promote safe use of this product, a user should (1) notify employees, agents, and contractors of the information in this SDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) ask each purchaser to notify its employees and customers of the product hazards and safety information.

The opinions expressed herein are those of qualified experts within Praxair, Inc. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use are not within the control of Praxair, Inc., it is the user's obligation to determine the conditions of safe use of the product.

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MSA Part Numbers: 10077765

SDS US (GHS HazCom 2012) - Praxair

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

EN (English US)

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