00000023778			
Version 1.0		Revision Date 11/08/2019	Print Date 05/17/2021
SECTION 1. IDENTIFICATION			
Product name	:	Honeywell Refrigerant R410A	
Number		00000023778	
Product Use Description	:	Refrigerant	
Manufacturer or supplier's	:	Honeywell International Inc.	
details		115 Tabor Road	
For more information call	:	Morris Plains, NJ 07950-2546 800-522-8001	
	•	+1-973-455-6300(Monday-Friday, 9:	:00am-5:00pm)
In case of emergency call	:	Medical: 1-800-498-5701 or +1-303	-389-1414
	:	Transportation (CHEMTREC): 1-80 527-3887	00-424-9300 or +1-703-
	:	In China: 4001-204937 or +86 532-	83889090
	:	(24 hours/day, 7 days/week)	
SECTION 2. HAZARDS IDENTIF		ATION	
Emergency Overview			
Form		: Liquefied gas	
Color		: colourless	
		. colouriess	
Odor		: weak	
Classification of the substa	anc	o or mixturo	
	anc		
Classification of the substance or mixture		: Gases under pressure, Liquefied g Simple Asphyxiant	Jas
GHS Label elements inclu	din	g precautionary statements	
		5 p 5 da	
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pressure; may exp n and cause rapid	
t. Store in a well-v	rentilated place.
skin irritation. arrhythmia.	
ENTS	
	Occupation
CAS-No. 75-10-5	Concentration 50.00 %
354-33-6	50.00 %
otect himself. Mov aminated clothing	ve out of dangerous immediately.
eathing is irregula spiration. Use oxy	

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	provided a qualified operator is prese not give drugs from adrenaline-ephe	
:	After contact with skin, wash immedia If there is evidence of frostbite, bathe lukewarm (not hot) water. If water is clean, soft cloth or similar covering. If physician.	(do not rub) with not available, cover with a
:	Rinse immediately with plenty of wate for at least 15 minutes. In case of from lukewarm, not hot. If symptoms persi	stbite water should be
:	Unlikely route of exposure. As this pr inhalation section. Do not induce von advice. Call a physician immediately.	niting without medical
:	Because of the possible disturbances catecholamine drugs, such as epiner with special caution and only in situal support. Treatment of overexposure control of symptoms and the clinical of bitten areas as needed.	bhrine, should be used tions of emergency life should be directed at the
ASU	RES	
ı :	The product is not flammable. Use water spray, alcohol-resistant for carbon dioxide. Use extinguishing measures that are circumstances and the surrounding	e appropriate to local
:	This product is not flammable at am atmospheric pressure. However, this material can ignite wh pressure and exposed to strong igni Container may rupture on heating. Cool closed containers exposed to f Do not allow run-off from fire fighting	en mixed with air under tion sources. ire with water spray.
	courses. Vapours are heavier than air and ca reducing oxygen available for breath Fire may cause evolution of:	
	: : :	 After contact with skin, wash immedia If there is evidence of frostbite, bather lukewarm (not hot) water. If water is clean, soft cloth or similar covering. If physician. Rinse immediately with plenty of water for at least 15 minutes. In case of fros lukewarm, not hot. If symptoms persion inhalation section. Do not induce von advice. Call a physician immediately. Because of the possible disturbances catecholamine drugs, such as epinep with special caution and only in situat support. Treatment of overexposure control of symptoms and the clinical obitten areas as needed. ASURES The product is not flammable. Use water spray, alcohol-resistant for carbon dioxide. Use extinguishing measures that are circumstances and the surrounding This product is not flammable at am atmospheric pressure. However, this material can ignite whote the surrounding is the surrounding in the surrounding is not flammable at am atmospheric pressure.

ension 1.0 Revision Date 11/08/2019 Print Date 05/17/20 Halogenated compounds Hydrogen fluoride Carbon xvides Carbonyl halides Special protective equipment for firefighters In the event of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus and protective suit. No unprotected exposed skin areas. ECTION 6. ACCIDENTAL RELEASE MEASURES Immediately evacuate personnel to safe areas. Keep people away from and upwind of splil/leak. Wear personal protective equipment. Unprotected persons must be kept away. Remove all sources of ignition. Avoid skin contact with leaking liquid (danger of frostbite). Ventilate the area. After release, disperses into the air. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Avoid accumulation of vapours in low areas. Unprotected personel should not return until air has been tested and determined safe. Ensure that the oxygen content is >= 19.5%. Environmental precautions up Yentilate the area. Arter release, or splilage if safe to do so. The product evapourates readily. Methods and materials for containment and cleaning up Yentilate the area. Avoid inhalation of vapour or mist. Do not get in eyes, on skin, or on clothing. Wear personal protected equipment. Use only in well-ventilated areas. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C.	AFETY DATA SHEET		Honeywell
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Methods and materials for containment and cleaning up : Ventilate the area. CCTION 7. HANDLING AND STORAGE Handling Precautions for safe handling : Handle with care. Avoid inhalation of vapour or mist. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. Use only in well-ventilated areas. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C.	protective equipment and emergency procedures	Keep people away from and upwir Wear personal protective equipmer must be kept away. Remove all sources of ignition. Avoid skin contact with leaking liqu Ventilate the area. After release, disperses into the ai Vapours are heavier than air and or reducing oxygen available for brea Avoid accumulation of vapours in I Unprotected personnel should not tested and determined safe. Ensure that the oxygen content is	nd of spill/leak. ent. Unprotected persons uid (danger of frostbite). r. can cause suffocation by athing. low areas. return until air has been >= 19.5%.
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Handling : Handle with care. Avoid inhalation of vapour or mist. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. Use only in well-ventilated areas. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C.	containment and cleaning	: Ventilate the area.	
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Page 4 / 14		Avoid inhalation of vapour or mist. Do not get in eyes, on skin, or on o Wear personal protective equipme Use only in well-ventilated areas. Pressurized container. Protect fror to temperatures exceeding 50 °C.	clothing. ent.
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Advice on protection : against fire and explosion	Revision Date 11/08/2019Print Date 05/17/2Follow all standard safety precautions for handling and use of compressed gas cylinders. Use authorized cylinders only. Protect cylinders from physical damage.
	compressed gas cylinders. Use authorized cylinders only. Protect cylinders from physical damage. Do not puncture or drop cylinders, expose them to open flame or excessive heat. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Do not remove screw cap until immediately ready for use. Always replace cap after use.
	The product is not flammable
	The product is not flammable. Can form a combustible mixture with air at pressures above atmospheric pressure.
Storage	
Conditions for safe storage, : including any incompatibilities	Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Keep containers tightly closed in a dry, cool and well-ventilated place. Storage rooms must be properly ventilated. Ensure adequate ventilation, especially in confined areas. Protect cylinders from physical damage. Store away from incompatible substances.
CTION 8. EXPOSURE CONTROL	S/PERSONAL PROTECTION
Protective measures :	Do not breathe vapour. Avoid contact with skin, eyes and clothing. Ensure that eyewash stations and safety showers are close to the workstation location.
Engineering measures :	General room ventilation is adequate for storage and handling. Perform filling operations only at stations with exhaust ventilation facilities.
Eye protection :	Wear as appropriate: Safety glasses with side-shields If splashes are likely to occur, wear: Goggles or face shield, giving complete protection to eyes
Hand protection :	Leather gloves
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	In case of contact through splashing: Protective gloves Neoprene gloves Polyvinyl alcohol or nitrile- butyl-rubber glo	ves
Skin and body protection	Avoid skin contact with leaking liquid (dang Wear cold insulating gloves/ face shield/ e	
Respiratory protection	In case of insufficient ventilation, wear suit equipment. Wear a positive-pressure supplied-air resp Vapours are heavier than air and can caus reducing oxygen available for breathing. For rescue and maintenance work in stora contained breathing apparatus.	irator. se suffocation by
Hygiene measures	Handle in accordance with good industrial practice. Ensure adequate ventilation, especially in Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing I Keep working clothes separately.	confined areas.
Hygiene measures	Handle in accordance with good industrial practice. Ensure adequate ventilation, especially in When using do not eat, drink or smoke. Remove and wash contaminated clothing I	confined areas.

Keep working clothes separately. Do not breathe vapour. Avoid contact with skin, eyes and clothing.

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Upda te	Basis
Difluoromethane	75-10-5	TWA : Time weighted average	2,200 mg/m3 (1,000 ppm)	2007	WEEL:US. OARS. WEELs Workplace Environmental Exposure Level Guide, as amended
Difluoromethane	75-10-5	TWA : Time weighted average	(1,000 ppm)	1994	Honeywell:Limit established by Honeywell International Inc.
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Date 05/17, JS. OARS. Workplace mental re Level as amended rell:Limit hed by rell ional Inc.
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	33,798 hPa at 54.4 °C(129.9 °F)	
Vapor density	: 3 Note: (Air = 1.0)	
Density	: 1.08 g/cm3 at 21.1 °C	
Water solubility	: Note: no data available	
Partition coefficient: n- octanol/water	 log Pow: 1.48 Test substance: Ethane, pentafluoro log Pow: 0.21 Test substance: Difluoromethane (H 	
Ignition temperature	: >750 °C	
Decomposition temperature	: >250 °C	

SECTION 10. STABILITY AND REACTIVITY

Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not occur.
Conditions to avoid	 Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C. Decomposes under high temperature. Some risk may be expected of corrosive and toxic decomposition products. Can form a combustible mixture with air at pressures above atmospheric pressure. Do not mix with oxygen or air above atmospheric pressure.
Incompatible materials	: Finely divided aluminium Potassium
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ersion 1.0	Revision Date 11/08/2019	Print Date 05/17/20
	Calcium Powdered metals Aluminium Magnesium Zinc	
Hazardous decomposition products	 Halogenated compounds Hydrogen fluoride Carbonyl halides Carbon oxides 	
ECTION 11. TOXICOLOGICA	L INFORMATION	
Acute inhalation toxicity Difluoromethane	: LC50: > 520000 ppm Exposure time: 4 h Species: Rat	
Pentafluoroethane	: > 769000 ppm Exposure time: 4 h Species: Rat	
Sensitisation Difluoromethane	: Cardiac sensitization Species: dogs Note: No-observed-effect level >350 000 ppm	
Pentafluoroethane	 Cardiac sensitization Species: dogs Note: No-observed-effect level 75 000 ppm Lowest observed effect level 100 000 ppm 	
Repeated dose toxicity Difluoromethane	: Species: Rat Application Route: Inhalation Exposure time: (90 d) NOEL: 50000 ppm	
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	Subchronic toxicity
Pentafluoroethane	: Species: Rat Application Route: Inhalation Exposure time: (4 Weeks) NOEL: 50000 ppm Subchronic toxicity
Genotoxicity in vitro Difluoromethane	: Test Method: Ames test Result: negative
Pentafluoroethane	: Test Method: Ames test Result: negative
	: Cell type: Human lymphocytes Result: negative Method: Mutagenicity (in vitro mammalian cytogenetic test)
	: Test Method: Chromosome aberration test in vitro Result: negative
	: Cell type: Human lymphocytes Result: negative
	: Cell type: Chinese Hamster Ovary Cells Result: negative
Genotoxicity in vivo Difluoromethane	: Species: Mouse Cell type: Bone marrow Method: Mutagenicity (micronucleus test) Result: negative
Teratogenicity Difluoromethane	: Species: Rat Dose: NOEL - 50,000 ppm Note: Did not show teratogenic effects in animal experiments
	Species: Rabbit Dose: NOEL - 50,000 ppm Note: Did not show teratogenic effects in animal experiments
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Pentafluoroethane	 Species: Rabbit Application Route: Inhalation exposure NOAEL,Teratog: 50,000 ppm NOAEL,Maternal: 50,000 ppm Note: Did not show teratogenic effects in animal experiments. 				
	Species: Rat Application Route: Inhalation exposure NOAEL,Teratog: 50,000 ppm NOAEL,Maternal: 50,000 ppm Note: Did not show teratogenic effects in animal experiments.				
Further information	: Acute toxicity Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Rapid evaporation of the liquid may cause frostbite. May cause cardiac arrhythmia.				
TION 12. ECOLOGICAL I	NFORMATION				
Biodegradability Difluoromethane	: Note: Minimal				
Pentafluoroethane	: Result: Not readily biodegradable. Value: 5 % Method: OECD 301 D				
Further information on e	cology				
Additional ecological information	: This product is subject to U.S. Environmental Protection Agency Clean Air Act Regulations at 40 CFR Part 82. This product contains greenhouse gases which may contribute to global warming. Do NOT vent to the atmosphere To comply with provisions of the U.S. Clean Air Act, any residual must be recovered.				
TION 13. DISPOSAL COM	SIDERATIONS				
Disposal methods	: Observe all Federal, State, and Local Environmental regulations.				
Note	: This product is subject to U.S. Environmental Protection				
Note	: This product is subject to U.S. Environmental Protection Page 11 / 14				

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			Print Date 05/17/202
		ncy Clean Air Act Regulations a garding refrigerant recycling.	Section 608 in 40 CFR Part
ECTION 14. 1	RANSPORT INFORMATION	 I	
DOT	UN/ID No. Proper shipping name Class Packing group Hazard Labels	 : UN 3163 : LIQUEFIED GAS, N.O.S (Pentafluoroethane, Diflu 2.2 2.2 	
ΙΑΤΑ	UN/ID No. Description of the goods Class Hazard Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft)	 : UN 3163 : LIQUEFIED GAS, N.O.S (Pentafluoroethane, Diflute) : 2.2 : 2.2 : 200 : 200 	
IMDG	UN/ID No. Description of the goods Class Hazard Labels EmS Number Marine pollutant	 : UN 3163 : LIQUEFIED GAS, N.O.S (PENTAFLUOROETHAI DIFLUOROMETHANE) : 2.2 : 2.2 : F-C, S-V : no 	
ECTION 15. F	REGULATORY INFORMATIC	DN	
Inventorie	es		
US. Toxic Control Ac		CA Inventory	
Australia. Chemical Assessme	(Notification and	inventory, or in compliance wi	th the inventory
Canada. C	Canadian : All com	ponents of this product are on	the Canadian DSL
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Environmental Protection Act (CEPA). Domestic Substances List (DSL)			
Japan. Kashin-Hou Law List	:	On the inventory, or in compliance wit	h the inventory
Korea. Existing Chemicals Inventory (KECI)	:	On the inventory, or in compliance wit	h the inventory
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	:	On the inventory, or in compliance wit	h the inventory
China. Inventory of Existing Chemical Substances (IECSC)	:	On the inventory, or in compliance wit	h the inventory
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	:	On the inventory, or in compliance wit	h the inventory
National regulatory informa	atic	on	
SARA 302 Components	:	No chemicals in this material are subj requirements of SARA Title III, Sectio	
SARA 313 Components	:	This material does not contain any ch known CAS numbers that exceed the reporting levels established by SARA	threshold (De Minimis)
SARA 311/312 Hazards	:	Acute Health Hazard Sudden Release of Pressure Hazard	
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California Prop. 65	:	listed below, and birth def	known to the S ects or other rep to www.P65V thane	act can expose you to chemicals, tate of California to cause cancer productive harm. For more Varnings.ca.gov. 75-09-2 74-87-3
Massachusetts RTK	:	Dichloromethane		75-09-2
Pennsylvania RTK	:	: Difluoromethane		75-10-5
TION 16. OTHER INFORI	ΜΑΤΙΟ	DN		
		HMIS III	NFPA	
Health hazard	:	1	2	
Flammability	:	1	1	
Physical Hazard Instability	:	0	0	
Hazard rating and rating suse of individuals trained				is information is intended solely for
Further information				
information and belief at the guidance for safe handling to be considered a warran	he dat g, use ity or o nay no s, unlo	e of its publica , processing, s quality specific ot be valid for s ess specified i	ation. The inform storage, transpo cation. The infor such material us n the text. Final	to the best of our knowledge, nation given is designed only as a rtation, disposal and release and is mation relates only to the specific sed in combination with any other determination of suitability of any should not constitute a guarantee f
materials or in any proces				, and the second s
materials or in any proces material is the sole respor any specific product prope	erties.	are highlighted	d in the margin.	This version replaces all previous
materials or in any process material is the sole respon any specific product proper Changes since the last ver- versions.	erties. rsion		-	
materials or in any process material is the sole respon any specific product proper Changes since the last ver- versions.	erties. rsion		-	This version replaces all previous
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materials or in any process material is the sole respon any specific product proper Changes since the last ver- versions.	erties. rsion	ance Material	s and Technolo	This version replaces all previous