	Revision Date 05/09/2019 Print Date 01/19/2
CTION 1. IDENTIFICATION	
Product name	: Genetron® 404A (R-404A)
Number	: 00000009893
Product Use Description	: Refrigerant
Manufacturer or supplier's details For more information call	<ul> <li>Honeywell International Inc.</li> <li>115 Tabor Road</li> <li>Morris Plains, NJ 07950-2546</li> <li>800-522-8001</li> <li>41.072,455,6200(Mendey Fridey, 0:00em 5:00em)</li> </ul>
In case of emergency call	<ul> <li>+1-973-455-6300(Monday-Friday, 9:00am-5:00pm)</li> <li>Medical: 1-800-498-5701 or +1-303-389-1414</li> <li>Transportation (CHEMTREC): 1-800-424-9300 or +1-703- 527-3887</li> </ul>
	: : (24 hours/day, 7 days/week)
CTION 2. HAZARDS IDENTIF Emergency Overview	ICATION
Emergency Overview	
	FICATION  : Liquefied gas  : colourless
Emergency Overview Form	: Liquefied gas
Emergency Overview Form Color	: Liquefied gas : colourless : weak
Emergency Overview Form Color Odor	: Liquefied gas : colourless : weak
Emergency Overview Form Color Odor Classification of the substance or mixture	<ul> <li>: Liquefied gas</li> <li>: colourless</li> <li>: weak</li> </ul> ance or mixture <ul> <li>: Gases under pressure, Liquefied gas</li> </ul>

AFETY DATA SHEET	Γ	Honeywell
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Symbol(s)		
Signal word	: Warning	
Hazard statements	: Contains gas under pressure; r May displace oxygen and caus	
Precautionary statements	: <b>Storage:</b> Protect from sunlight. Store in a	a well-ventilated place.
Hazards not otherwise classified	: May cause cardiac arrhythmia. May cause frostbite. May cause eye and skin irritatio	
	t present at levels greater than or equa	al to 0.1% is identified as a know
No component of this produc or anticipated carcinogen by		al to 0.1% is identified as a know
No component of this produc or anticipated carcinogen by TION 3. COMPOSITION/INF	NTP, IARC, or OSHA.	
No component of this produc or anticipated carcinogen by TION 3. COMPOSITION/INF	NTP, IARC, or OSHA.	o. Concentration
No component of this produc or anticipated carcinogen by CTION 3. COMPOSITION/INF Chemical nature Chemical	NTP, IARC, or OSHA. FORMATION ON INGREDIENTS : Mixture name CAS-No	D.     Concentration       -2     52.00 %
No component of this produc or anticipated carcinogen by TION 3. COMPOSITION/INF Chemical nature (Chemical 1,1,1-Trifluoroethane	NTP, IARC, or OSHA. FORMATION ON INGREDIENTS : Mixture name CAS-No 420-46-	D.       Concentration         •2       52.00 %         •6       44.00 %
No component of this produc or anticipated carcinogen by <b>CTION 3. COMPOSITION/INF</b> Chemical nature (Chemical 1,1,1-Trifluoroethane Pentafluoroethane	NTP, IARC, or OSHA. FORMATION ON INGREDIENTS : Mixture name CAS-No 420-46- 354-33- 811-97-	D.       Concentration         •2       52.00 %         •6       44.00 %
No component of this produc or anticipated carcinogen by <b>TION 3. COMPOSITION/INF</b> Chemical nature (Chemical 1,1,1-Trifluoroethane Pentafluoroethane 1,1,1,2-Tetrafluoroethane	NTP, IARC, or OSHA. FORMATION ON INGREDIENTS : Mixture name CAS-No 420-46- 354-33- 811-97-	D.       Concentration         •2       52.00 %         •6       44.00 %         •2       4.00 %

sion 2.7	_	Revision Date 05/09/2019	Print Date 01/19/2
Inhalation	:	Move to fresh air. If breathing is irregular or st administer artificial respiration. Use oxygen as provided a qualified operator is present. Call a not give drugs from adrenaline-ephedrine gro	s required, a physician. Do
Skin contact	:	After contact with skin, wash immediately with If there is evidence of frostbite, bathe (do not lukewarm (not hot) water. If water is not avail clean, soft cloth or similar covering. If sympton physician.	rub) with able, cover with a
Eye contact	:	Rinse immediately with plenty of water, also u for at least 15 minutes. In case of frostbite wa lukewarm, not hot. If symptoms persist, call a	ter should be
Ingestion	:	Unlikely route of exposure. As this product is inhalation section. Do not induce vomiting with advice. Call a physician immediately.	
Notes to physician			
Indication of immediate medical attention and special treatment needed, if necessary	:	Because of the possible disturbances of cardi catecholamine drugs, such as epinephrine, sh with special caution and only in situations of e support. Treatment of overexposure should b control of symptoms and the clinical condition bitten areas as needed.	nould be used mergency life be directed at the
CTION 5. FIREFIGHTING MEA	SI	IRES	
Suitable extinguishing media		The product is not flammable. ASHRAE 34 Use water spray, alcohol-resistant foam, dry carbon dioxide.	chemical or
Specific hazards during firefighting		Contents under pressure. This product is not flammable at ambient terr atmospheric pressure. However, this material can ignite when mixed pressure and exposed to strong ignition sour Container may rupture on heating. Cool closed containers exposed to fire with w Do not allow run-off from fire fighting to enter courses.	d with air under ces. vater spray.
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		Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Fire may cause evolution of: Hydrogen fluoride Carbon oxides Halogenated compounds Carbonyl halides Gaseous hydrogen chloride (HCI).
Special protective equipment for firefighters	:	Wear full protective clothing and self-contained breathing apparatus.
Further information	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
ECTION 6. ACCIDENTAL RELE	EAS	E MEASURES
Personal precautions, protective equipment and emergency procedures	:	Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/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 personnel should not return until air has been tested and determined safe. Ensure that the oxygen content is >= 19.5%.
Environmental precautions	:	Prevent further leakage or spillage if safe to do so. The product evapourates readily.
Methods and materials for containment and cleaning up	:	Ventilate the area.
ECTION 7. HANDLING AND ST	OR	AGE
		-
Handling		
Handling Precautions for safe	:	Handle with care.

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handling		Avoid inhalation of vapour or mist. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. Pressurized container. Protect from sunlight a to temperatures exceeding 50 °C. Follow all standard safety precautions for han compressed gas cylinders. Use authorized cylinders only. Protect cylinders from physical damage. Do not puncture or drop cylinders, expose the or excessive heat. Do not pierce or burn, even after use. Do not flame or any incandescent material. Do not remove screw cap until immediately re Always replace cap after use.	ndling and use of em to open flame spray on a naked
Advice on protection against fire and explosion	:	The product is not flammable. Can form a combustible mixture with air at pro atmospheric pressure.	essures above
Storage			
Conditions for safe storage, including any incompatibilities	:	Pressurized container: protect from sunlight a to temperatures exceeding 50 °C. Do not pier after use. Keep containers tightly closed in a dry, cool a place. Storage rooms must be properly ventilated. Ensure adequate ventilation, especially in cor Protect cylinders from physical damage.	ce or burn, even
TION 8. EXPOSURE CONT	ROL	S/PERSONAL PROTECTION	
Protective measures	:	Do not breathe vapour. Do not get in eyes, on skin, or on clothing. Ensure that eyewash stations and safety show the workstation location.	wers are close to
Engineering measures	:	General room ventilation is adequate for stora Perform filling operations only at stations with ventilation facilities.	
Eye protection	:	Wear as appropriate: Safety glasses with side-shields	
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	If splashes are likely to occur, wear: Goggles or face shield, giving compl	ete protection to eyes
Hand protection	<ul> <li>Leather gloves         In case of contact through splashing: Protective gloves         Neoprene gloves         Polyvinyl alcohol or nitrile- butyl-rubb     </li> </ul>	
Skin and body protection	: Avoid skin contact with leaking liquid Wear cold insulating gloves/ face shi	
Respiratory protection	<ul> <li>In case of insufficient ventilation, wear equipment.</li> <li>Wear a positive-pressure supplied-ai Vapours are heavier than air and car reducing oxygen available for breath For rescue and maintenance work in contained breathing apparatus.</li> </ul>	ir respirator. n cause suffocation by ing.
Hygiene measures	<ul> <li>Handle in accordance with good indupractice.</li> <li>Ensure adequate ventilation, especia Do not get in eyes, on skin, or on clo Remove and wash contaminated clo Keep working clothes separately.</li> </ul>	ally in confined areas.

#### **Exposure Guidelines**

Components	CAS-No.	Value	Control parameters	Upda te	Basis
1,1,1- Trifluoroethane	420-46-2	TWA : Time weighted average	(1,000 ppm)		Honeywell:Limit established by Honeywell International Inc.

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Pentafluoroethan       354-33-6       TWA : Time weighted average       4,900 mg/m3 (1,000 ppm)       2007       WEEL:US: OARS. WEELs Workplace Environmental Exposure Level Guide         Pentafluoroethan e       354-33-6       TWA : Time weighted average       (1,000 ppm)       Honeywell:Limit established by Honeywell International Inc.         1,1,1,2- Tetrafluoroethane       811-97-2       TWA : Time weighted average       (1,000 ppm)       Honeywell:Limit established by Honeywell International Inc.         1,1,1,2- Tetrafluoroethane       811-97-2       TWA : Time weighted average       4,240 mg/m3 (1,000 ppm)       2007       WEEL:US: OARS. WEELs Workplace Environmental Exposure Level Guide         1,1,1,2- Tetrafluoroethane       811-97-2       TWA : Time weighted average       4,240 mg/m3 (1,000 ppm)       2007       WEEL:US: OARS. WEELs Workplace Environmental Exposure Level Guide         1,1,1,2- Tetrafluoroethane       811-97-2       TWA : Time weighted average       4,240 mg/m3 (1,000 ppm)       2007       WEEL:US: OARS. WEELs Workplace Environmental Exposure Level Guide         5       Section 9. PHYSICAL AND CHEMICAL PROPERTIES       Physical state       Liquefied gas Color       colourless Odor       Colourless         Odor       :       Note: no data available       indata available	0000009893 ersion 2.7	Re	vision Date	05/09/2019		Print Date 01/19/202
e       Time weighted average       (1,000 ppm)       WEELs Workplace Environmental Exposure Level Guide         Pentafluoroethan       354-33-6       TWA : Time weighted average       (1,000 ppm)       Honeywell:Limit established by Honeywell         1,1,1,2:       Tetrafluoroethane       811-97-2       TWA : Time weighted average       (1,000 ppm)       Honeywell:Limit established by Honeywell         1,1,1,2:       Tetrafluoroethane       811-97-2       TWA : Time weighted average       (1,000 ppm)       Honeywell:Limit established by Honeywell         1,1,1,2:       Tetrafluoroethane       811-97-2       TWA : Time weighted average       (1,000 ppm)       2007       WEEL:US. OARS. WEELs Workplace Environmental Exposure Level Guide         1,1,1,2:       Tetrafluoroethane       811-97-2       TWA : Time weighted average       (1,000 ppm)       2007       WEEL:US. OARS. WEELs Workplace Environmental Exposure Level Guide         1,1,1,2:       Tetrafluoroethane       811-97-2       TWA : Time weighted average       (1,000 ppm)       2007       WEEL:US. OARS. WEELs Workplace Environmental Exposure Level Guide         Section 9. PHYSICAL AND CHEMICAL PROPERTIES         Physical state       : Liquefied gas       .       .         Color       : Liquefied gas       .       .       .         Odor       : weak       . <t< td=""><td></td><td></td><td>violon Dato</td><td>00/00/2010</td><td></td><td></td></t<>			violon Dato	00/00/2010		
e       Time weighted average       established by Honeywell International Inc.         1,1,1,2- Tetrafluoroethane       811-97-2       TWA : Time weighted average       (1,000 ppm)       Honeywell:Limit established by Honeywell International Inc.         1,1,1,2- Tetrafluoroethane       811-97-2       TWA : Time weighted average       4,240 mg/m3 (1,000 ppm)       2007       WEEL:US. OARS. WEELs Workplace Environmental Exposure Level Guide         1,1,1,2- Tetrafluoroethane       811-97-2       TWA : Time weighted average       4,240 mg/m3 (1,000 ppm)       2007       WEEL:US. OARS. WEELs Workplace Environmental Exposure Level Guide         1,1,1,2- Tetrafluoroethane       811-97-2       TWA : Time weighted average       4,240 mg/m3 (1,000 ppm)       2007       WEEL:US. OARS. WEELs Workplace Environmental Exposure Level Guide         ECTION 9. PHYSICAL AND CHEMICAL PROPERTIES       Physical state       :       Liquefied gas         Color       :       colourless       .         Odor       :       weak		354-33-6	Time weighted	4,900 mg/m3 (1,000 ppm)	2007	WEELs Workplace Environmental Exposure Level
Tetrafluoroethane       Time weighted average       established by Honeywell International Inc.         1,1,1,2- Tetrafluoroethane       811-97-2       TWA : Time weighted average       4,240 mg/m3 (1,000 ppm)       2007       WEEL:US. OARS. WEELs Workplace Environmental Exposure Level Guide         1,1,1,2- Tetrafluoroethane       811-97-2       TWA : Time weighted average       4,240 mg/m3 (1,000 ppm)       2007       WEEL:US. OARS. WEELs Workplace Environmental Exposure Level Guide         1,1,1,2- Tetrafluoroethane       811-97-2       TWA : Time weighted average       4,240 mg/m3 (1,000 ppm)       2007       WEEL:US. OARS. WEELs Workplace Environmental Exposure Level Guide         ECTION 9. PHYSICAL AND CHEMICAL PROPERTIES       Physical state       :       Liquefied gas         Color       :       colourless       Odor       :       weak		354-33-6	Time weighted	(1,000 ppm)		established by Honeywell
Tetrafluoroethane       Time weighted average       (1,000 ppm)       WEELs Workplace Environmental Exposure Level Guide         1,1,1,2-       811-97-2       TWA : Time weighted average       4,240 mg/m3 (1,000 ppm)       2007       WEEL:US. OARS. WEELs Workplace Environmental Exposure Level Guide         1,1,1,2-       Tetrafluoroethane       811-97-2       TWA : Time weighted average       4,240 mg/m3 (1,000 ppm)       2007       WEEL:US. OARS. WEELs Workplace Environmental Exposure Level Guide         ECTION 9. PHYSICAL AND CHEMICAL PROPERTIES         Physical state       :       Liquefied gas         Color       :       colourless         Odor       :       weak		811-97-2	Time weighted	(1,000 ppm)		established by Honeywell
Tetrafluoroethane       Time weighted average       (1,000 ppm)       WEELs Workplace Environmental Exposure Level Guide         ECTION 9. PHYSICAL AND CHEMICAL PROPERTIES         Physical state       : Liquefied gas         Color       : colourless         Odor       : weak		811-97-2	Time weighted		2007	WEELs Workplace Environmental Exposure Level
Physical state: Liquefied gasColor: colourlessOdor: weak		811-97-2	Time weighted		2007	WEELs Workplace Environmental Exposure Level
Odor : weak				IES		
	Color	: colc	ourless			
Odor threshold : Note: no data available	Odor	: wea	ak			
	Odor threshold	: Not	e: no data a	vailable		
pH : Note: neutral Page 7 / 15	рН	: Note		/ 15		

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Freezing point	: Note: no data available	
Boiling point/boiling range	: -47.8 °C	
	. 1.0 0	
Flash point	: Note: Not applicable	
Evaporation rate	: > 1 Method: Compared to CCl4.	
Lower explosion limit	: Note: None	
Upper explosion limit	: Note: None	
Vapor pressure	: 12,610 hPa at 21.1 °C(70.0 °F) 25,572 hPa at 54.4 °C(129.9 °F)	
Vapor density	: 3.43 Note: (Air = 1.0)	
Density	: 1.08 g/cm3 at 21.1 °C	
Water solubility	: Note: Very slightly soluble in cold wa	ater, hot water.
Partition coefficient: n- octanol/water	: log Pow: 1.06 Test substance: 1,1,1,2-tetrafluoroet	thane (HFC-134a)
Ignition temperature	: <750 °C	
Decomposition temperature	: >250 °C	
Viscosity, dynamic	: Note: no data available	
Viscosity, kinematic	: Note: no data available	
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TION 10. STABILITY AND F	REACTIVITY
Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not occur.
Conditions to avoid	<ul> <li>Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C.</li> <li>Decomposes under high temperature.</li> <li>Some risk may be expected of corrosive and toxic decomposition products.</li> <li>Can form a combustible mixture with air at pressures above atmospheric pressure.</li> <li>Do not mix with oxygen or air above atmospheric pressure.</li> </ul>
ncompatible materials	: Oxidizing agents Finely divided metal powders such as aluminum, magnesium, or zinc.
Hazardous decomposition products	<ul> <li>Halogenated compounds Hydrogen fluoride Carbonyl halides Carbon oxides Gaseous hydrogen chloride (HCI).</li> </ul>
<b>TION 11. TOXICOLOGICAL</b> Acute inhalation toxicity 1,1,1-Trifluoroethane	INFORMATION : LC50: > 540000 ppm Exposure time: 4 h Species: Rat
	LC50: > 106 mg/l Exposure time: 4 h Species: Rat
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Pentafluoroethane	: > 769000 ppm Exposure time: 4 h Species: Rat	
1,1,1,2-Tetrafluoroethane	: LC50: > 500000 ppm Exposure time: 4 h Species: Rat	
Sensitisation		
1,1,1-Trifluoroethane	: Cardiac sensitization Species: dogs Note: 1,1,1,2-tetrafluoroethane (HFC sensitisation threshold (dog): 80000	
Pentafluoroethane	<ul> <li>Cardiac sensitization</li> <li>Species: dogs</li> <li>Note: No-observed-effect level</li> <li>75 000 ppm</li> <li>Lowest observed effect level</li> <li>100 000 ppm</li> </ul>	
1,1,1,2-Tetrafluoroethane	<ul> <li>Cardiac sensitization</li> <li>Species: dogs</li> <li>Note: No-observed-effect level</li> <li>50 000 ppm</li> <li>Lowest observed effect level</li> <li>75 000 ppm</li> </ul>	
Repeated dose toxicity		
1,1,1-Trifluoroethane	: Species: Rat Application Route: Inhalation Exposure time: (90 d) NOEL: 40000 ppm Subchronic toxicity	
Pentafluoroethane	: Species: Rat Application Route: Inhalation Exposure time: (4 Weeks) NOEL: 50000 ppm Subchronic toxicity	
1,1,1,2-Tetrafluoroethane	: Species: Rat NOEL: 40000 ppm	
Genotoxicity in vitro		
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: : : :	Test Method: Ames test Result: negative Test Method: Ames test Result: negative Note: In vitro tests did not show mutagenic effects. Cell type: Human lymphocytes Result: negative
::	Result: negative Note: In vitro tests did not show mutagenic effects. Cell type: Human lymphocytes
::	Cell type: Human lymphocytes
:	
:	Nooun negative
	Cell type: Human lymphocytes Result: negative
:	Cell type: Chinese Hamster Ovary Cells Result: negative
:	Species: Mouse Cell type: Bone marrow Application Route: Inhalation Result: negative
:	Species: Rat Application Route: Inhalation exposure NOAEL,Teratog: 40,000 ppm NOAEL,Maternal: 40,000 ppm Note: Did not show teratogenic effects in animal experiments
	Species: Rabbit Application Route: Inhalation exposure NOAEL,Teratog: 40,000 ppm NOAEL,Maternal: 40,000 ppm Note: Did not show teratogenic effects in animal experiments
:	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
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	NOAEL,Teratog: 50,000 ppm NOAEL,Maternal: 50,000 ppm Note: Did not show teratogenic effects in animal experiments.
Further information	: Note: Acute Health Hazard Ethane, pentafluoro- (HFC-125): Cardiac sensitisation threshold (dog): 75000 ppm. 1,1,1- trifluoroethane (HFC-143a): Cardiac sensitisation threshold (dog): >250000 ppm. 1,1,1,2-tetrafluoroethane (HFC-134a): Cardiac sensitisation threshold (dog): 80000 ppm. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Irritating to eyes and skin. Rapid evaporation of the liquid may cause frostbite. Avoid skin contact with leaking liquid (danger of frostbite). May cause cardiac arrhythmia. Chronic Health Hazard 1,1,1- trifluoroethane (HFC-143a): Not mutagenic in AMES Test.
CTION 12. ECOLOGICAL	INFORMATION
Biodegradability Pentafluoroethane	: Result: Not readily biodegradable. Value: 5 % Method: OECD 301 D
Further information on e	ecology
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.
CTION 13. DISPOSAL CO	NSIDERATIONS
Disposal methods	: Observe all Federal, State, and Local Environmental regulations.
Note	<ul> <li>This product is subject to U.S. Environmental Protection Agency Clean Air Act Regulations Section 608 in 40 CFR Part 82 regarding refrigerant recycling.</li> </ul>
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ODDOODOODOBSD3         Version 2.7       Revision Date 05/09/2019         SECTION 14. TRANSPORT INFORMATION         DOT       UN/ID No.       : UN 3337         Proper shipping name       : REFRIGERANT GAS F         Class       2.2         Packing group       Hazard Labels       2.2         IATA       UN/ID No.       : UN 3337         Description of the goods       : REFRIGERANT GAS F         Class       : 2.2         Hazard Labels       : 2.2         Hazard Labels       : 2.2         Packing instruction (cargo       : 200         aircraft)       Packing instruction       : 200         Packing instruction       : 2.0         Description of the goods       : REFRIGERANT GAS F         Class       : 2.2         Packing instruction       : 2.00         aircraft)       Packing instruction       : 2.00         Description of the goods       : REFRIGERANT GAS F         Class       : 2.2         Hazard Labels       : 2.2         Hazard Labels       : 2.2         EmS Number       : 2.2         EmS Number       : 2.2         EmS Number       : 2.2         EmS Number	
SECTION 14. TRANSPORT INFORMATION DOT UN/ID No. : UN 3337 Proper shipping name : REFRIGERANT GAS F Class 2.2 Packing group Hazard Labels 2.2 IATA UN/ID No. : UN 3337 Description of the goods : REFRIGERANT GAS F Class : 2.2 Hazard Labels : 2.2 Packing instruction (cargo : 200 aircraft) Packing instruction : 200 (passenger aircraft) IMDG UN/ID No. : UN 3337 Description of the goods : REFRIGERANT GAS F Class : 2.2 Hazard Labels : 2.2 Packing instruction : 200 (passenger aircraft) IMDG UN/ID No. : UN 3337 Description of the goods : REFRIGERANT GAS F Class : 2.2 Hazard Labels : 2.2 Hazard Labels : 2.2 Hazard Labels : 2.2 SECTION 15. REGULATORY INFORMATION Inventories US. Toxic Substances : On TSCA Inventory Control Act	R 404A
DOT       UN/ID No.       : UN 3337         Proper shipping name       : REFRIGERANT GAS F         Class       2.2         Packing group       2.2         HAZard Labels       2.2         IATA       UN/ID No.       : UN 3337         Description of the goods       : REFRIGERANT GAS F         Class       : 2.2         Hazard Labels       : 2.2         Hazard Labels       : 2.2         Packing instruction (cargo       : 2.0         aircraft)       Packing instruction (cargo         Packing instruction       : 200         aircraft)       Packing instruction         Packing instruction       : 200         (passenger aircraft)       : UN 3337         Description of the goods       : REFRIGERANT GAS F         Class       : 2.2         Hazard Labels       : 2.2         Hazard Labels       : 2.2         Hazard Labels       : 2.2         EmS Number       : F-C, S-V         Marine pollutant       : no         SECTION 15. REGULATORY INFORMATION         US. Toxic Substances       : On TSCA Inventory         Control Act       : On TSCA Inventory <th></th>	
Proper shipping name       :       REFRIGERANT GAS F         Class       2.2         Packing group	
Description of the goods : REFRIGERANT GAS F Class : 2.2 Hazard Labels : 2.2 Packing instruction (cargo : 200 aircraft) Packing instruction : 200 (passenger aircraft) IMDG UN/ID No. : UN 3337 Description of the goods : REFRIGERANT GAS F Class : 2.2 Hazard Labels : 2.2 EmS Number : F-C, S-V Marine pollutant : no SECTION 15. REGULATORY INFORMATION Inventories US. Toxic Substances : On TSCA Inventory Control Act	R 404A
Description of the goods : REFRIGERANT GAS F Class : 2.2 Hazard Labels : 2.2 EmS Number : F-C, S-V Marine pollutant : no SECTION 15. REGULATORY INFORMATION Inventories US. Toxic Substances : On TSCA Inventory Control Act	
Inventories US. Toxic Substances : On TSCA Inventory Control Act	R 404A
US. Toxic Substances : On TSCA Inventory Control Act	
Control Act	
Assetselie Industrial October 1 1	
Australia. Industrial : On the inventory, or in compliance we Chemical (Notification and Assessment) Act	vith the inventory
Canada. Canadian : All components of this product are of Environmental Protection Act (CEPA). Domestic Substances List (DSL)	on the Canadian DSL
Japan. Kashin-Hou Law : On the inventory, or in compliance v List	vith the inventory
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Korea. Existing Chemicals Inventory (KECI)	:	On the inventory, or in compliance with the inventory			
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	: On the inventory, or in compliance with the inventory				
China. Inventory of Existing Chemical Substances	:	: On the inventory, or in compliance with the inventory			
NZIOC - New Zealand	:	On the inventory, or in compliance with the inventory			
National regulatory informa	atio	ı			
SARA 302 Components		: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.			
SARA 313 Components		This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.			
SARA 311/312 Hazards		Acute Health Hazard Sudden Release of Pressure Hazard			
California Prop. 65		This product does California to cause reproductive harm.	cancer, birth defe	emicals known to State of cts, or any other	
New Jersey RTK	:	1,1,1-Trifluoroetha	ne	420-46-2	
CTION 16. OTHER INFORMA	τιο	N			
			FPA		
Health hazard	÷	1 2 1 1			
		•			
Flammability		Page 14 /			

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Physical Hazard Instability	: 0 : 0		

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

#### **Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Previous Issue Date: 06/04/2014

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group

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