Honeywell

Genetron®134a

00000009876

Version 2.6 Revision Date 06/06/2014 Print Date 09/22/2016 SECTION 1. PRODUCT AND COMPANY IDENTIFICATION Product name Genetron® 134a : MSDS Number 00000009876 : Product Use Description Refrigerant, Propellant : Manufacturer or supplier's : Honeywell International Inc. details 115 Tabor Road Morris Plains, NJ 07950-2546 800-522-8001 For more information call : +1-973-455-6300 (Monday-Friday, 9:00am-5:00pm) Medical: 1-800-498-5701 or +1-303-389-1414 In case of emergency call : Transportation (CHEMTREC): 1-800-424-9300 or +1-703-• 527-3887 : : (24 hours/day, 7 days/week) SECTION 2. HAZARDS IDENTIFICATION **Emergency Overview** Form : Liquefied gas Color : colourless Odor : weak Classification of the substance or mixture Classification of the : Gases under pressure, Liquefied gas Simple Asphyxiant substance or mixture GHS Label elements, including precautionary statements Page 1 / 13

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Symbol(s)		
Signal word	: Warning	
Hazard statements	: Contains gas under pressure; may May displace oxygen and cause rap	
Precautionary statements	: Storage: Protect from sunlight. Store in a we	II-ventilated place.
Hazards not otherwise classified	: May cause cardiac arrhythmia. May cause frostbite.	
Carcinogenicity		
Carcinogenicity No component of this product or anticipated carcinogen by	present at levels greater than or equal to	0.1% is identified as a known
Carcinogenicity No component of this product or anticipated carcinogen by	present at levels greater than or equal to NTP, IARC, or OSHA.	0.1% is identified as a known
Carcinogenicity No component of this product or anticipated carcinogen by CTION 3. COMPOSITION/INF	present at levels greater than or equal to NTP, IARC, or OSHA.	0.1% is identified as a knowr
Carcinogenicity No component of this product or anticipated carcinogen by C CTION 3. COMPOSITION/INF Formula	present at levels greater than or equal to NTP, IARC, or OSHA. ORMATION ON INGREDIENTS : CF3CH2F : Substance	0.1% is identified as a known
Carcinogenicity No component of this product or anticipated carcinogen by CTION 3. COMPOSITION/INF Formula Chemical nature	present at levels greater than or equal to NTP, IARC, or OSHA. ORMATION ON INGREDIENTS : CF3CH2F : Substance	
Carcinogenicity No component of this product or anticipated carcinogen by CTION 3. COMPOSITION/INF Formula Chemical nature Chemical 1	Present at levels greater than or equal to NTP, IARC, or OSHA. ORMATION ON INGREDIENTS : CF3CH2F : Substance Name CAS-No. 811-97-2	Concentration
Carcinogenicity No component of this product or anticipated carcinogen by I CTION 3. COMPOSITION/INF Formula Chemical nature 1,1,1,2-Tetrafluoroethane	Present at levels greater than or equal to NTP, IARC, or OSHA. ORMATION ON INGREDIENTS : CF3CH2F : Substance Name CAS-No. 811-97-2	<u>Concentration</u> 99.80 % ular or stopped, oxygen as required, ent. Call a physician. Do

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Skin contact	:	After contact with skin, wash immediat If there is evidence of frostbite, bathe lukewarm (not hot) water. If water is r clean, soft cloth or similar covering. If physician.	(do not rub) with not available, cover with a
Eye contact		Rinse immediately with plenty of water for at least 15 minutes. In case of frost lukewarm, not hot. If symptoms persis	tbite water should be
Ingestion		Unlikely route of exposure. As this pro inhalation section. Do not induce vomi advice. Call a physician immediately.	
Notes to physician			
Treatment	:	Because of the possible disturbances catecholamine drugs, such as epineph with special caution and only in situati support. Treatment of overexposure s control of symptoms and the clinical co bitten areas as needed.	nrine, should be used ons of emergency life should be directed at the
TION 5. FIREFIGHTING MEA	ASU	RES	
Suitable extinguishing media	:	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
Specific hazards during firefighting	:	Contents under pressure. This product is not flammable at amb atmospheric pressure. However, this material can ignite whe pressure and exposed to strong igniti Container may rupture on heating. Cool closed containers exposed to fin Do not allow run-off from fire fighting courses. Vapours are heavier than air and can reducing oxygen available for breathi	en mixed with air under ion sources. re with water spray. to enter drains or water
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produced such as: Hydrogen halides Hydrogen fluoride Carbon dioxide (CO2) Carbonyl halides Special protective equipment for firefighters In the event of fire an Wear self-contained b No unprotected exposition TION 6. ACCIDENTAL RELEASE MEASURES Personal precautions : Immediately evacuate Keep people away from Wear personal protect must be kept away. Remove all sources of Avoid skin contact with Ventilate the area. After release, disperse Vapours are heavier th reducing oxygen availa Avoid accumulation of Unprotected personnel tested and determined Ensure that the oxyget Environmental precautions : Prevent further leakag The product evapourat Methods for cleaning up : Ventilate the area.	/2014 Print Date 09/22/
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for firefighters Wear self-contained to No unprotected exposition TTION 6. ACCIDENTAL RELEASE MEASURES Personal precautions Immediately evacuate Keep people away for Wear personal protect must be kept away. Remove all sources of Avoid skin contact with Ventilate the area. After release, disperse Vapours are heavier th reducing oxygen availa Avoid accumulation of Unprotected personnel tested and determined Ensure that the oxyget Environmental precautions Prevent further leakag The product evapourat Methods for cleaning up Ventilate the area. TION 7. HANDLING AND STORAGE Handling	us decomposition products may be
 Personal precautions Immediately evacuate Keep people away from Wear personal protect must be kept away. Remove all sources of Avoid skin contact with Ventilate the area. After release, disperse Vapours are heavier the reducing oxygen availa Avoid accumulation of Unprotected personnel tested and determined Ensure that the oxyget Environmental precautions Prevent further leakag The product evapourat Methods for cleaning up Ventilate the area. 	I/or explosion do not breathe fumes. reathing apparatus and protective suit. ed skin areas.
After release, disperse Vapours are heavier the reducing oxygen availa Avoid accumulation of Unprotected personnel tested and determined Ensure that the oxygen Environmental precautions : Prevent further leakag The product evapourate Methods for cleaning up : Ventilate the area. TION 7. HANDLING AND STORAGE Handling	personnel to safe areas. a and upwind of spill/leak. ve equipment. Unprotected persons ignition. leaking liquid (danger of frostbite).
The product evapourate Methods for cleaning up : Ventilate the area.	an air and can cause suffocation by ble for breathing. vapours in low areas. should not return until air has been safe. content is >= 19.5%.
TION 7. HANDLING AND STORAGE Handling	
Handling	
-	
Handling · Handle with care	
Avoid inhalation of vap	our or mist.
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sion 2.6		Revision Date 06/06/2014	Print Date 09/22/2
		Do not get in eyes, on skin, or on cloth Wear personal protective equipment. Use only in well-ventilated areas. Pressurized container. Protect from su to temperatures exceeding 50 °C. Follow all standard safety precautions compressed gas cylinders. Use authorized cylinders only. Protect cylinders from physical damag Do not puncture or drop cylinders, exp or excessive heat. Do not pierce or burn, even after use.	Inlight and do not expose for handling and use of e. bose them to open flame
		flame or any incandescent material. Do not remove screw cap until immedi Always replace cap after use.	
Advice on protection against fire and explosion	:	The product is not flammable. Can form a combustible mixture with a atmospheric pressure.	ir at pressures above
Storage			
Requirements for storage areas and containers	:	Pressurized container: protect from su to temperatures exceeding 50 °C. Do after use. Keep containers tightly closed in a dry place. Storage rooms must be properly ventila Ensure adequate ventilation, especiall Protect cylinders from physical damag	not pierce or burn, even , cool and well-ventilated ated. y in confined areas.
TION & EXPOSURE CONT		PERSONAL PROTECTION	
Protective measures		Do not breathe vapour. Avoid contact with skin, eyes and cloth Ensure that eyewash stations and safe the workstation location.	
Engineering measures	:	General room ventilation is adequate f Perform filling operations only at static ventilation facilities.	
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sion 2.6 Revision Date 06/06/2014 Print Date 08/22/2 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 In case of contact through splashing: Protective gloves Neoprene gloves Polyviny! alcohol or nitrile- butyl-rubber gloves Skin and body protection : Avoid skin contact with leaking liquid (danger of frostbite). Wear cold insulating gloves/ face shield eye protection. Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Wear a positive-pressure supplied-air respirator. Yapours are heavier than air and can cause suffaction by reducing oxygen available for breathing. For rescue and maintenance work in storage tanks use self- contained breathing apparatus. Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Keep working clothes separately. Exposure Guidelines 811-97-2 TWA : weighted average Lond mainteners te parameters Lond Basis te Honeywell:Limit established by Honeywell 1,1,1,2: Tetrafluoroethane 811-97-2 TWA : weighted average 4,240 mg/m3 (1,000 ppm) 2007 WEEL:US.AIHA Workplace Environmental Exposure Level (WEEL) Guides	000009876						
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 In case of contact through splashing: Protective gloves Neoprene gloves Polyvinyl alcohol or nitrile- butyl-rubber gloves Skin and body protection : Avoid skin contact with leaking liquid (danger of fostbite). Wear cold insulating gloves/ face shield/ eye protection. Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Wear a positive-pressure supplied-air respirator. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. For rescue and maintenance work in storage tanks use self- contained breathing apparatus. Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Keep working clothes separately. Exposure Guidelines Value Control parameters Upda Basis 1,1,1,2- Tetrafluoroethane 811-97-2 TWA : time weighted average (1,000 ppm) (1,000 ppm) 2007 WEEL:US.AIHA Workplace Environmental Exposure Level (WEEL) Guides	sion 2.6		Re	evision Date	e 06/06/2014		Print Date 09/22/2
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 In case of contact through splashing: Protective gloves Neoprene gloves Polyvinyl alcohol or nitrile- butyl-rubber gloves Skin and body protection : Avoid skin contact with leaking liquid (danger of frostbite). Wear cold insulating gloves/ face shield/ eye protection. Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Wear a positive-pressure supplied-air respirator. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. For rescue and maintenance work in storage tanks use self- contained breathing apparatus. Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Keep working clothes separately. Exposure Guidelines Value Control parameters Upda Basis 1,1,1,2- Tetrafluoroethane 811-97-2 TWA : time weighted average (1,000 ppm) (1,000 ppm) 2007 WEEL:US.AIHA Workplace Environmental Exposure Level (WEEL) Guides							
In case of contact through splashing: Protective gloves Neoprene gloves Polyvinyl alcohol or nitrile- butyl-rubber glovesSkin and body protection: Avoid skin contact with leaking liquid (danger of frostbite). Wear cold insulating gloves/ face shield/ eye protection.Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. Wear a positive-pressure supplied-air respirator. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. For rescue and maintenance work in storage tanks use self- contained breathing apparatus.Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Keep working clothes separately.Exposure GuidelinesImage: CaS-No.Value weighted averageUpda parametersBasis tel honeywell:Limit established by Honeywell international Inc.1,1,1,2- Tetrafluoroethane811-97-2TWA : time weighted average4,240 mg/m3 (1,000 ppm)2007 (WEEL:US.AIHA Workplace Environmental Exposure Level (WEEL) Guides	Eye protection	:	Safe If sp	ty glasses v lashes are l	vith side-shields ikely to occur, we		rotection to eyes
Wear cold insulating gloves/ face shield/ eye protection. Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Wear a positive-pressure supplied-air respirator. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. For rescue and maintenance work in storage tanks use self-contained breathing apparatus. Hygiene measures I Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Keep working clothes separately. Exposure Guidelines CAS-No. Value Control parameters Upda Basis te 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. AIHA Workplace Environmental Exposure Level (WEEL) Guides	Hand protection	:	In ca Prote Neop	ase of conta active gloves prene gloves	5 5	-	oves
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ComponentsCAS-No.ValueControl parametersUpda teBasis1,1,1,2- Tetrafluoroethane811-97-2TWA : time weighted average(1,000 ppm)Honeywell:Limit established by Honeywell International Inc.1,1,1,2- Tetrafluoroethane811-97-2TWA : time weighted average4,240 mg/m3 (1,000 ppm)2007WEEL:US. AIHA Workplace Environmental Exposure Level (WEEL) Guides	Hygiene measures	:	pract Enst Avoid Rem	tice. ure adequate d contact w ove and wa	e ventilation, esp ith skin, eyes and sh contaminated	ecially in clothing clothing	confined areas.
1,1,1,2- Tetrafluoroethane811-97-2TWA : time weighted average(1,000 ppm)Honeywell:Limit established by Honeywell International Inc.1,1,1,2- Tetrafluoroethane811-97-2TWA : time weighted average4,240 mg/m3 (1,000 ppm)2007WEEL:US. AIHA Workplace Environmental Exposure Level (WEEL) Guides				Value	Control	Upda	Basis
Tetrafluoroethane time weighted average (1,000 ppm) Workplace Environmental Exposure Level (WEEL) Guides		811-97	7-2	time weighted		te	established by Honeywell
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Physical state	: Liquefied gas
Color	: colourless
Odor	: weak
pH	: Note: neutral
Melting point/freezing point	: -101 °C
Boiling point/boiling range	: -26.2 °C
Flash point	: Note: not applicable
Evaporation rate	: > 1 Method: Compared to CCl4.
Lower explosion limit	: Note: None
Upper explosion limit	: Note: None
Vapor pressure	: 5,915 hPa at 21.1 °C(70.0 °F) 14,713 hPa at 54.4 °C(129.9 °F)
Vapor density	: 3.5
Density	: 1.2 g/cm3
Water solubility	: 1.5 g/l
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Partition coefficient: n- octanol/water	: log Pow: 1.06 Note: The product is more soluble in	octanol.
Ignition temperature	: >750 °C	
Auto-ignition temperature	: >750 °C	
Decomposition temperature	: > 250 °C Note: To avoid thermal decompositio	n, do not overheat.
Molecular weight	: 102.02 g/mol	
Global warming potential (GWP)	: 1,300	
Ozone depletion potential	: 0	
(ODP) CTION 10. STABILITY AND R		
TION 10. STABILITY AND R	REACTIVITY : Stable under normal conditions.	
CTION 10. STABILITY AND R Chemical stability Possibility of hazardous		occur.
CTION 10. STABILITY AND R	: Stable under normal conditions.	sunlight and do not 0 °C.
CTION 10. STABILITY AND R Chemical stability Possibility of hazardous reactions	 Stable under normal conditions. Hazardous polymerisation does not of Pressurized container. Protect from seexpose to temperatures exceeding 50 Decomposes under high temperature Some risk may be expected of corrose decomposition products. Can form a combustible mixture with atmospheric pressure. 	sunlight and do not 0 °C. e. sive and toxic air at pressures above
CTION 10. STABILITY AND R Chemical stability Possibility of hazardous reactions Conditions to avoid	 Stable under normal conditions. Hazardous polymerisation does not of Pressurized container. Protect from sexpose to temperatures exceeding 5 Decomposes under high temperature Some risk may be expected of corrost decomposition products. Can form a combustible mixture with atmospheric pressure. Do not mix with oxygen or air above 	sunlight and do not 0 °C. e. sive and toxic air at pressures above
CTION 10. STABILITY AND R Chemical stability Possibility of hazardous reactions	 Stable under normal conditions. Hazardous polymerisation does not of Pressurized container. Protect from seexpose to temperatures exceeding 50 Decomposes under high temperature Some risk may be expected of corrose decomposition products. Can form a combustible mixture with atmospheric pressure. 	sunlight and do not 0 °C. e. sive and toxic air at pressures above

Honeywell SAFETY DATA SHEET Genetron® 134a 00000009876 Version 2.6 Revision Date 06/06/2014 Print Date 09/22/2016 Hazardous decomposition : Halogenated compounds products Hydrogen fluoride Carbonyl halides Carbon oxides SECTION 11. TOXICOLOGICAL INFORMATION : LC50: > 500000 ppm Acute inhalation toxicity Exposure time: 4 h Species: rat Sensitisation : Cardiac sensitization Species: dogs Note: No-observed-effect level 50 000 ppm Lowest observable effect level 75 000 ppm Repeated dose toxicity : Species: rat NOEL: 40000 ppm Genotoxicity in vitro : Note: In vitro tests did not show mutagenic effects Further information : Note: Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Rapid evapouration of the liquid may cause frostbite. Avoid skin contact with leaking liquid (danger of frostbite). SECTION 12. ECOLOGICAL INFORMATION Further information on ecology Additional ecological : Accumulation in aquatic organisms is unlikely. This product contains greenhouse gases which may information 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. Page 9 / 13

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SECTION 13.	DISPOSAL CONSIDERATIO	NS	
Disposal		erve all Federal, State, and Loca llations.	al Environmental
Note	Age	s product is subject to U.S. Envir ency Clean Air Act Regulations S regarding refrigerant recycling.	
SECTION 14.	TRANSPORT INFORMATIO	N	
DOT	UN/ID No. Proper shipping name Class Packing group	: UN 3159 : 1,1,1,2-Tetrafluoroethane 2.2	
	Hazard Labels	2.2	
ΙΑΤΑ	UN/ID No. Description of the goods	: UN 3159 : 1,1,1,2-Tetrafluoroethane	
	Class Hazard Labels Packing instruction (cargo	: 2.2 : 2.2 : 200	
	aircraft) Packing instruction (passenger aircraft)	: 200	
IMDG	UN/ID No. Description of the goods Class	: UN 3159 : 1,1,1,2-Tetrafluoroethane : 2.2	
	Hazard Labels EmS Number Marine pollutant	: 2.2 : F-C, S-V : no	
SECTION 15.	REGULATORY INFORMATION	ON	
Inventor	ies		
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: On TSCA Inventory	
: On the inventory, or in compliance w	ith the inventory
: All components of this product are or	n the Canadian DSL.
: On the inventory, or in compliance w	ith the inventory
: On the inventory, or in compliance w	ith the inventory
: On the inventory, or in compliance w	ith the inventory
: On the inventory, or in compliance w	ith the inventory
: On the inventory, or in compliance w	ith the inventory
ation	
components with known CAS numbe	rs that exceed the
: Acute Health Hazard Sudden Release of Pressure Hazard	
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	 On the inventory, or in compliance w All components of this product are or On the inventory, or in compliance w SARA 302: No chemicals in this matherized the inventory of SARA Title SARA 313: This material does not components with known CAS number threshold (De Minimis) reporting leve Title III, Section 313. Acute Health Hazard Sudden Release of Pressure Hazard

SAFETY DATA SHEET Honeywell Genetron®134a 00000009876 Version 2.6 Revision Date 06/06/2014 Print Date 09/22/2016 California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. New Jersey RTK : 1,1,1,2-Tetrafluoroethane 811-97-2 Pennsylvania RTK : 1,1,1,2-Tetrafluoroethane 811-97-2 WHMIS Classification : A: Compressed Gas This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. Global warming potential : 1,300 **Ozone depletion potential** : 0 (ODP) SECTION 16. OTHER INFORMATION HMIS III **NFPA** Health hazard : 1 2 Flammability : 1 1 Physical Hazard : 0 Instability 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, Page 12 / 13

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guidance for safe handling to be considered a warrant material designated and m materials or in any process	, use, processing, storage, tran y or quality specification. The in ay not be valid for such materia s, unless specified in the text. F sibility of the user. This information	formation given is designed only as a sportation, disposal and release and is not nformation relates only to the specific al used in combination with any other final determination of suitability of any tion should not constitute a guarantee for
Changes since the last ver versions. Previous Issue Date: 12/06	sion are highlighted in the mar	gin. This version replaces all previous nologies Product Stewardship Group