Honeywell

Genetron® 22

00000009890

Print Date 05/28/2015 Version 2.8 Revision Date 04/03/2014 SECTION 1. PRODUCT AND COMPANY IDENTIFICATION Product name Genetron® 22 : MSDS Number : 00000009890 Product Use Description Refrigerant : Manufacturer or supplier's : Honeywell International Inc. details 101 Columbia Road Morristown, NJ 07962-1057 For more information call 800-522-8001 : +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 : slight Classification of the substance or mixture Classification of the : Gases under pressure, Liquefied gas substance or mixture Simple Asphyxiant GHS Label elements, including precautionary statements Page 1 / 14

Honeywell SAFETY DATA SHEET **Genetron® 22** 00000009890 Version 2.8 Print Date 05/28/2015 Revision Date 04/03/2014 Symbol(s) Signal word : Warning Hazard statements : Contains gas under pressure; may explode if heated. May displace oxygen and cause rapid suffocation. Precautionary statements : Prevention: Use personal protective equipment as required. Storage: Protect from sunlight. Store in a well-ventilated place. Hazards not otherwise : May cause eye and skin irritation. classified May cause frostbite. May cause cardiac arrhythmia. Carcinogenicity No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA. **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS** Formula : CHCIF2 Chemical nature : Substance **Chemical Name** CAS-No. Concentration Chlorodifluoromethane 75-45-6 100.00 % **SECTION 4. FIRST AID MEASURES** Inhalation : Move to fresh air. If breathing is irregular or stopped, Page 2 / 14

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Skin contact	:	administer artificial respiration. Use or provided a qualified operator is presen not give drugs from adrenaline-ephed After contact with skin, wash immedia	nt. Call a physician. Do Irine group.
		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 wate for at least 15 minutes. In case of fros lukewarm, not hot. If symptoms persis	tbite water should be
Ingestion	:	Unlikely route of exposure. As this pro inhalation section. Do not induce vom advice. Call a physician immediately.	
Notes to physician			
Treatment	:	Because of the possible disturbances catecholamine drugs, such as epinep with special caution and only in situati support. Treatment of overexposure control of symptoms and the clinical c bitten areas as needed.	hrine, should be used ions of emergency life should be directed at the
CTION 5. FIREFIGHTING N	MEASL	JRES	
Suitable extinguishing me	dia :	The product is not flammable. ASHRAE 34 Use water spray, alcohol-resistant fo 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 who	en mixed with air under
		pressure and exposed to strong ignit Container may rupture on heating. Cool closed containers exposed to fi	

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Special protective equipment for firefighters	 Do not allow run-off from fire fighting courses. Vapours are heavier than air and careducing oxygen available for breath In case of fire hazardous decompose produced such as: Gaseous hydrogen chloride (HCI). Hydrogen fluoride Carbon monoxide Carbon dioxide (CO2) Carbonyl halides In the event of fire and/or explosion Wear self-contained breathing appa No unprotected exposed skin areas 	an cause suffocation by hing. ition products may be do not breathe fumes. aratus and protective suit.
ECTION 6. ACCIDENTAL RELE	 Immediately evacuate personnel to s Keep people away from and upwind Wear personal protective equipment must be kept away. Remove all sources of ignition. Avoid skin contact with leaking liquid Ventilate the area. After release, disperses into the air. Vapours are heavier than air and car reducing oxygen available for breath 	of spill/leak. . Unprotected persons (danger of frostbite). n cause suffocation by ing.
	 Immediately evacuate personnel to s Keep people away from and upwind Wear personal protective equipment must be kept away. Remove all sources of ignition. Avoid skin contact with leaking liquid Ventilate the area. After release, disperses into the air. Vapours are heavier than air and car reducing oxygen available for breath Avoid accumulation of vapours in low Unprotected personnel should not re tested and determined safe. Ensure that the oxygen content is >= Prevent further leakage or spillage if 	of spill/leak. . Unprotected persons (danger of frostbite). n cause suffocation by ing. v areas. turn until air has been = 19.5%.
Personal precautions	 Immediately evacuate personnel to s Keep people away from and upwind Wear personal protective equipment must be kept away. Remove all sources of ignition. Avoid skin contact with leaking liquid Ventilate the area. After release, disperses into the air. Vapours are heavier than air and car reducing oxygen available for breath Avoid accumulation of vapours in low Unprotected personnel should not re tested and determined safe. Ensure that the oxygen content is >= 	of spill/leak. . Unprotected persons (danger of frostbite). n cause suffocation by ing. v areas. turn until air has been = 19.5%.
Personal precautions	 Immediately evacuate personnel to s Keep people away from and upwind Wear personal protective equipment must be kept away. Remove all sources of ignition. Avoid skin contact with leaking liquid Ventilate the area. After release, disperses into the air. Vapours are heavier than air and car reducing oxygen available for breath Avoid accumulation of vapours in low Unprotected personnel should not re tested and determined safe. Ensure that the oxygen content is >= Prevent further leakage or spillage if The product evapourates readily. 	of spill/leak. . Unprotected persons (danger of frostbite). n cause suffocation by ing. v areas. turn until air has been = 19.5%.

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ECTION 7. HANDLING AND STO	DRAGE	
Handling		
Handling	 Handle with care. Avoid inhalation of vapour or mist. Do not get in eyes, on skin, or on cle Wear personal protective equipmen Pressurized container. Protect from to temperatures exceeding 50 °C. Follow all standard safety precautio compressed gas cylinders. Use authorized cylinders only. Protect cylinders from physical dam Do not puncture or drop cylinders, e or excessive heat. Do not pierce or burn, even after us flame or any incandescent material. Do not remove screw cap until imme Always replace cap after use. 	t. sunlight and do not expose ns for handling and use of age. expose them to open flame e. Do not spray on a naked
Advice on protection against fire and explosion	: The product is not flammable. Can form a combustible mixture with atmospheric pressure.	h air at pressures above
Storage		
Requirements for storage areas and containers	 Pressurized container: protect from to temperatures exceeding 50 °C. D after use. Keep containers tightly closed in a c place. Storage rooms must be properly ver Ensure adequate ventilation, especi Protect cylinders from physical dam 	oo not pierce or burn, even dry, cool and well-ventilated ntilated. ially in confined areas.
SECTION 8. EXPOSURE CONTRO	OLS/PERSONAL PROTECTION	
Protective measures	: Do not breathe vapour. Avoid contact with skin, eyes and cl Ensure that eyewash stations and s	
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		the w	vorkstation	ocation.		
Engineering measur	es :	Perfo		perations only at		torage and handling. with exhaust
Eye protection	:	Safet If spla	ashes are l	vith side-shields kely to occur, w	ear:	otection to eyes
Hand protection	:	In ca Prote Neop	ective glove prene glove		-	oves
			Avoid skin contact with leaking liquid (danger of frostbite). Wear cold insulating gloves/ face shield/ eye protection.			
Respiratory protection	on :	equip Wear Vapo reduo For re	oment. r a positive- ours are hea cing oxyger escue and	n available for br	ed-air resp d can caus eathing.	
Hygiene measures	:	pract Ensu Avoid Reme	ice. re adequat d contact wi ove and wa	-	pecially in d clothing d clothing	
Exposure Guidelin						
Components	CAS-No.		Value	Control parameters	Upda te	Basis
Chlorodifluoromet hane	75-45-	6	TWA : time weighted average	(1,000 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values

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Chlorodifluoromet 75-4 hane	45-6	STEL : Short term exposure limit	4,375 mg/m3 (1,250 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Chlorodifluoromet 75-4 hane	15-6	REL : Recomm ended exposure limit (REL):	3,500 mg/m3 (1,000 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Chlorodifluoromet 75-4 hane	15-6	TWA : time weighted average	3,500 mg/m3 (1,000 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
CTION 9. PHYSICAL AND CH Physical state		L PROPERT	IES		
Color	: со	lourless			
Odor	: sli	ght			
рН	: No	ote: neutral			
Melting point/freezing point	: -1	60 °C			
Boiling point/boiling range	: -4	0.8 °C			
Flash point	: No	ote: not applic	cable		
Lower explosion limit	: No	ote: None			
Lower explosion limit Upper explosion limit		ote: None ote: None			

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Vapor pressure	: 9,384 hPa at 21.1 °C(70.0 °F) 21,470 hPa at 54.4 °C(129.9 °F)	
Vapor density	: 3 Note: (Air = 1.0)	
Density	: 1.21 g/cm3 at 21.1 °C	
Water solubility	: 3.0 g/l	
Partition coefficient: n- octanol/water	: log Pow: 1.08 - 1.13 Note: The product is more soluble in a	octanol.
Ignition temperature	: Note: not determined	
Decomposition temperature	: > 250 °C	
Molecular weight	: 86.46 g/mol	
Global warming potential (GWP)	: 1,500	
Ozone depletion potential (ODP)	: 0.06	
TION 10. STABILITY AND R	EACTIVITY	
Chemical stability	: Stable under normal conditions.	
Possibility of hazardous reactions	: Hazardous polymerisation does not o	ccur.
Conditions to avoid	: Pressurized container. Protect from s expose to temperatures exceeding 50	
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Incompatible materials to avoid Hazardous decomposition products	 Decomposes under high temperature Some risk may be expected of corros decomposition products. Can form a combustible mixture with atmospheric pressure. Do not mix with oxygen or air above a Finely divided aluminium Potassium Calcium Powdered metals Aluminium Magnesium Zinc In case of fire hazardous decomposit produced such as: Gaseous hydrogen chloride (HCI). Gaseous hydrogen fluoride (HF). Carbonyl halides 	sive and toxic air at pressures above atmospheric pressure.
	Carbonyl halides Carbon monoxide	
	Carbon dioxide (CO2)	
CTION 11. TOXICOLOGICAI	L INFORMATION : LC50: > 300000 ppm	
CTION 11. TOXICOLOGICAI		
	L INFORMATION : LC50: > 300000 ppm Exposure time: 4 h	
Acute inhalation toxicity	L INFORMATION : LC50: > 300000 ppm Exposure time: 4 h Species: rat : Cardiac sensitization Species: dogs Note: Chlorodifluoromethane (HCFC-	opm. was associated with a

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Further information	: Acute toxicity Rapid evapouratic frostbite. Vapours are heavier tha suffocation by reducing oxygen a cause cardiac arrhythmia.	an air and can cause
ECTION 12. ECOLOGICAL INFOR	RMATION	
Ecotoxicity effects		
Toxicity to fish	: static test LC50: 777 mg/l Exposure time: 96 h Species: Danio rerio (zebra fish)	
Toxicity to daphnia and other aquatic invertebrates	: static test EC50: 433 mg/l Exposure time: 48 h Species: Daphnia magna (Water	flea)
Further information on ecolog	gу	
Additional ecological information	 Accumulation in aquatic organism This product contains greenhous contribute to global warming. Do To comply with provisions of the residual must be recovered. This product is subject to U.S. En Agency Clean Air Act Regulation Section 611 requires the followin of this product: Warning: Contains Chlorodifluor a substance which harms public destroying ozone in the upper att Refer to sections 610 and 612 fo unacceptable uses for this produ 	se gases which may NOT vent to the atmosphere. U.S. Clean Air Act, any nvironmental Protection as at 40 CFR Part 82. Ing label text on all shipments romethane (HCFC-22), health and environment by mosphere. or list of acceptable and
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Version 2.8 Revision Date 04/03/2014 Print Date 05/28 SECTION 13. DISPOSAL CONSIDERATIONS Disposal methods : Observe all Federal, State, and Local Environmental regulations. Note : This product is subject to U.S. Environmental Protection Agency Clean Air Act Regulations Section 608 in 40 CFR Pa 82 regarding refrigerant recycling. SECTION 14. TRANSPORT INFORMATION DOT UN/ID No. : UN 1018 Proper shipping name : Chlorodifluoromethane Class 2.2 Packing group Hazard Labels 2.2 Packing instruction (cargo i aircraft) 2.00 IMDG UN/ID No. : UN 1018 Description of the goods : Chlorodifluoromethane Class : 2.2 Packing instruction (cargo i aircraft) : 200 : 2.2 IMDG UN/ID No. : UN 1018 Description of the goods : Chlorodifluoromethane Description of the goods : Chlorodifluoromethane : 2.2 Packing instruction (cargo i aircraft) : 2.0 IMDG UN/ID No. : UN 1018 Description of the goods : Chlorodifluoromethane Class : 2.2 Hazard Labels : 2.2 Hazard Labels : 2.2 Hazard Labels : 2.2 <td< th=""><th>SAFETY</th><th>DATA SHEET</th><th></th><th>Honeywell</th></td<>	SAFETY	DATA SHEET		Honeywell
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regulations. Note This product is subject to U.S. Environmental Protection Agency Clean Air Act Regulations Section 608 in 40 CFR Pa B2 regarding refrigerant recycling. SECTION 14. TRANSPORT INFORMATION DOT UN/ID No. TOT UN/ID No. Class 2.2 IATA UN/ID No. EVIN 1018 Description of the goods Class 2.2 Hazard Labels 4 Hazard Labels				
regulations. Note This product is subject to U.S. Environmental Protection Agency Clean Air Act Regulations Section 608 in 40 CFR Pa 82 regarding refrigerant recycling. SECTION 14. TRANSPORT INFORMATION DOT UN/ID No. TOT UN/ID No. Class 2.2 IATA UN/ID No. Description of the goods Class 2.2 Hazard Labels 4.2 Hazard Labels 4.3 Hazard L	SECTION 13.	DISPOSAL CONSIDERATIO	DNS	
Agency Clean Air Áct Regulations Section 608 in 40 CFR Pa 82 regarding refrigerant recycling. SECTION 14. TRANSPORT INFORMATION DOT UN/ID No. : UN 1018 Proper shipping name : Chlorodifluoromethane Class : 2.2 Packing group Hazard Labels : 2.2 H	Disposal			cal Environmental
DOT UN/ID No. : UN 1018 Proper shipping name : Chlorodifluoromethane Class 2.2 Packing group 2.2 HAZard Labels 2.2 IATA UN/ID No. : UN 1018 Description of the goods : Chlorodifluoromethane Class : 2.2 HAZard Labels : 2.2 Hazard Labels : 2.2 Hazard Labels : 2.2 Hazard Labels : 2.2 Packing instruction (cargo : 2.0 aircraft) : 2.0 Packing instruction (cargo : 200 (passenger aircraft) : 200 Packing instruction (cargo : 2.0 Packing instruction : 2.0 (passenger aircraft) : 200 IMDG UN/ID No. : UN 1018 Description of the goods : Chlorodifluoromethane Class : 2.2 Hazard Labels : 2.2 Hazard Labels : 2.2 EmS Number : F-C, S-V Marine pollutant : no SECTION 15. REGULATORY INFORMATION	Note	Age	ency Clean Air Act Regulations	Section 608 in 40 CFR Part
Proper shipping name Chlorodifluoromethane Class 2.2 Packing group 2.2 Hazard Labels 2.2 IATA UN/ID No. UN 1018 Description of the goods Chlorodifluoromethane Class 2.2 Hazard Labels 2.2 Hazard Labels 2.2 Hazard Labels 2.2 Hazard Labels 2.2 Packing instruction (cargo 200 aircraft) aircraft) Packing instruction 200 (passenger aircraft) UN 1018 Description of the goods Chlorodifluoromethane Class 2.2 Hazard Labels 2.2 Hazard Labels 2.00 (passenger aircraft) UN 1018 Description of the goods Chlorodifluoromethane Class 2.2 Hazard Labels 2.2 EmS Number 2.2 EmS Number F-C, S-V Marine pollutant no SECTION 15. REGULATORY INFORMATION	SECTION 14.	TRANSPORT INFORMATIC	N	
Description of the goods : Chlorodifluoromethane Class : 2.2 Hazard Labels : 2.2 Packing instruction (cargo : 200 aircraft)	DOT	Proper shipping name Class Packing group	: Chlorodifluoromethane 2.2	
Description of the goods : Chlorodifluoromethane Class : 2.2 Hazard Labels : 2.2 EmS Number : F-C, S-V Marine pollutant : no	ΙΑΤΑ	Description of the goods Class Hazard Labels Packing instruction (cargo aircraft) Packing instruction	: Chlorodifluoromethane : 2.2 : 2.2 : 200	
Inventories	IMDG	Description of the goods Class Hazard Labels EmS Number	: Chlorodifluoromethane : 2.2 : 2.2 : F-C, S-V	
			ION	
US. Toxic Substances : On TSCA Inventory	Inventor	ies		
	US. Toxic	Substances : On T	SCA Inventory	
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Control Act			
Control Act			
Australia. Industrial Chemical (Notification and Assessment) Act	:	On the inventory, or in compliance with	n the inventory
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	:	All components of this product are on t	he Canadian DSL.
Japan. Kashin-Hou Law List	:	On the inventory, or in compliance with	n the inventory
Korea. Toxic Chemical Control Law (TCCL) List	:	On the inventory, or in compliance with	n the inventory
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	:	On the inventory, or in compliance with	n the inventory
China. Inventory of Existing Chemical Substances	:	On the inventory, or in compliance with	n the inventory
National regulatory information	atic	n	
SARA 302 Components	:	SARA 302: No chemicals in this mater reporting requirements of SARA Title I	
SARA 313 Components	:	The following components are subject established by SARA Title III, Section 3 Chlorodifluoromethane 7	
SARA 311/312 Hazards	:	Acute Health Hazard Sudden Release of Pressure Hazard	

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California Prop. 65	:		cause cancer, bi	n any chemicals known to State of irth defects, or any other
Massachusetts RTK New Jersey RTK		Chlorodifluor		75-45-6 75-45-6
-				
Pennsylvania RTK		Chlorodifluor		75-45-6
WHMIS Classification	:		has been classif and the MSDS co	fied according to the hazard criteria ontains all of the information
Global warming potential	:	1,500		
Ozone depletion potential (ODP)	:	0.06		
ECTION 16. OTHER INFORMAT	ΓΙΟ	N		
Health hazard Flammability Physical Hazard Instability	:	HMIS III 1 1 0	NFPA 2 1 0	
Hazard rating and rating systems use of individuals trained in the				s information is intended solely for the
Further information				
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The information provided in this Safety Da information and belief at the date of its put guidance for safe handling, use, processir to be considered a warranty or quality spe material designated and may not be valid materials or in any process, unless specifi material is the sole responsibility of the us any specific product properties. Changes since the last version are highlig versions. Previous Issue Date: 02/14/2013 Prepared by Honeywell Performance Mate	ta Sheet is correct to the blication. The informatio ig, storage, transportatio cification. The informatio for such material used in ed in the text. Final dete er. This information sho hted in the margin. This	e best of our knowledge, n given is designed only as a on, disposal and release and is not on relates only to the specific n combination with any other ermination of suitability of any uld not constitute a guarantee for version replaces all previous
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