Honeywell

Genetron® 410A

00000009881

Version 2.7 Revision Date 04/18/2014 Print Date 09/25/2016 SECTION 1. PRODUCT AND COMPANY IDENTIFICATION Product name Genetron® 410A : MSDS Number 00000009881 : Product Use Description Refrigerant : 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) In case of emergency call : Medical: 1-800-498-5701 or +1-303-389-1414 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 : colourless Color : weak Odor Classification of the substance or mixture Classification of the substance : Gases under pressure, Liquefied gas or mixture Simple Asphyxiant GHS Label elements, including precautionary statements Page 1 / 15

Honeywell SAFETY DATA SHEET Genetron® 410A 00000009881 Version 2.7 Revision Date 04/18/2014 Print Date 09/25/2016 Symbol(s) Signal word : Warning Hazard statements : Contains gas under pressure; may explode if heated. May displace oxygen and cause rapid suffocation. : Prevention: Precautionary statements 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

Chemical nature : Mixtur	е	
Chemical Name	CAS-No.	Concentration
Pentafluoroethane	354-33-6	50.00 %
Difluoromethane	75-10-5	50.00 %
SECTION 4. FIRST AID MEASURES		
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Inhalation	:	Move to fresh air. If breathing is irregular or stopped, adminis artificial respiration. Use oxygen as required, provided a qualified operator is present. Call a physician. Do not give dru from adrenaline-ephedrine group.	
Skin contact	:	After contact with skin, wash immediately with plenty of water there is evidence of frostbite, bathe (do not rub) with lukeware (not hot) water. If water is not available, cover with a clean, s cloth or similar covering. If symptoms persist, call a physician	m soft
Eye contact	:	Rinse immediately with plenty of water, also under the eyelid for at least 15 minutes. In case of frostbite water should be lukewarm, not hot. If symptoms persist, call a physician.	s,
Ingestion	:	Unlikely route of exposure. As this product is a gas, refer to t inhalation section. Do not induce vomiting without medical advice. Call a physician immediately.	he
Notes to physician			
Treatment	:	Because of the possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, should be used w special caution and only in situations of emergency life suppor Treatment of overexposure should be directed at the control symptoms and the clinical conditions. Treat frost-bitten areas needed.	ort. of
TION 5. FIREFIGHTING MEA	ASL	JRES	
Suitable extinguishing media		 The product is not flammable. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. 	
Specific hazards during firefighting		 Contents under pressure. This product is not flammable at ambient temperatures and atmospheric pressure. However, this material can ignite when mixed with air under pressure and exposed to strong ignition sources. Container may rupture on heating. Cool closed containers exposed to fire with water spray. 	
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Special protective equipment for firefighters	: Immediately evacuate personnel to sa Keep people away from and upwind o	n cause suffocation by ing. tion products may be do not breathe fumes. ratus and protective suit.
	 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 can reducing oxygen available for breathir Avoid accumulation of vapours in low Unprotected personnel should not ret tested and determined safe. Ensure that the oxygen content is >= 	Unprotected persons (danger of frostbite). cause suffocation by ng. areas. urn until air has been
Environmental precautions	 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 can reducing oxygen available for breathir Avoid accumulation of vapours in low Unprotected personnel should not ret 	Unprotected persons (danger of frostbite). cause suffocation by ng. areas. urn until air has been 19.5%.
Environmental precautions Methods for cleaning up	 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 can reducing oxygen available for breathir Avoid accumulation of vapours in low Unprotected personnel should not ret tested and determined safe. Ensure that the oxygen content is >= Prevent further leakage or spillage if some statement of the statement o	Unprotected persons (danger of frostbite). cause suffocation by ng. areas. urn until air has been 19.5%.

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Handling		
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. Follow all standard safety precautions for handling and use of 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.
Advice on protection against fire and explosion	:	The product is not flammable. Can form a combustible mixture with air at pressures above atmospheric pressure.
Storage		
Requirements for storage areas and containers	:	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.
TION 8. EXPOSURE CONTR	OL	S/PERSONAL PROTECTION
Protective measures	:	Do not breathe vapour.
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	Avoid contact with skin, eyes Ensure that eyewash stations the workstation location.	and clothing. and safety showers are close to
Engineering measures	: General room ventilation is ac Perform filling operations only ventilation facilities.	dequate for storage and handling. at stations with exhaust
Eye protection	: Wear as appropriate: Safety glasses with side-shiel If splashes are likely to occur Goggles or face shield, giving	, wear:
Hand protection	: Leather gloves In case of contact through spl Protective gloves Neoprene gloves Polyvinyl alcohol or nitrile- bu	-
Skin and body protection	: Avoid skin contact with leakin Wear cold insulating gloves/ f	
Respiratory protection	 In case of insufficient ventilation equipment. Wear a positive-pressure sup Vapours are heavier than air reducing oxygen available for For rescue and maintenance self-contained breathing appart 	pplied-air respirator. and can cause suffocation by breathing. work in storage tanks use
Hygiene measures	: Handle in accordance with go practice. Ensure adequate ventilation, Avoid contact with skin, eyes Remove and wash contamina Keep working clothes separat	and clothing. ated clothing before re-use.
Hygiene measures	: Handle in accordance with go practice. Ensure adequate ventilation, When using do not eat, drink Remove and wash contamina Keep working clothes separat Do not breathe vapour. Avoid contact with skin, eyes	or smoke. ated clothing before re-use. tely.
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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. AIHA Workplace Environmental Exposure Level (WEEL) Guides
Difluoromethane	75-10-5	TWA : time weighted average	(1,000 ppm)	1994	Honeywell:Limit established by Honeywell International Inc.
Pentafluoroethan e	354-33-6	TWA : time weighted average	4,900 mg/m3 (1,000 ppm)	2007	WEEL:US. AIHA Workplace Environmental Exposure Level (WEEL) Guides
Pentafluoroethan e	354-33-6	TWA : time weighted average	(1,000 ppm)		Honeywell:Limit established by Honeywell International Inc.
FION 9. PHYSICAL Physical state Color Odor	: Lic : co : we	quefied gas Iourless eak	ES		
H 1elting point/freezin		ote: neutral ote: not deter	mined		

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Boiling point/boiling range	: -48.5 °C	
Flash point	: Note: not applicable	
Evaporation rate	: > 1 Method: Compared to CCl4.	
lower flammability limit	: Note: None	
upper flammability limit	: Note: None	
Vapor pressure	: 14,844 hPa at 21.1 °C(70.0 °F) 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 (HF	
Ignition temperature	: >750 °C	
Decomposition temperature	: >250 °C	
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Version 2.7 Revision Date 04/18/2014 Global warming potential (GWP) : 1,975 Ozone depletion potential : 0 SECTION 10. STABILITY AND REACTIVITY Chemical stability : Stable under normal conditions. Possibility of hazardous reactions : Hazardous polymerisation does no reactions Conditions to avoid : Pressurized container. Protect from to temperatures exceeding 50 °C. Decomposes under high temperatu Some risk may be expected of com decomposition products. Can form a combustible mixture wi atmospheric pressure. Do not mix with oxygen or air abow Incompatible materials to avoid : Finely divided aluminium Potassium Calcium Hazardous decomposition products : In case of fire hazardous decompon produced such as: Hydrogen fluoride Carbonyl halides Carbon monoxide Carbon dioxide (CO2) SECTION 11. TOXICOLOGICAL INFORMATION Acute inhalation toxicity	Print Date 09/25/20
(GWP) Ozone depletion potential : 0 (ODP) ECTION 10. STABILITY AND REACTIVITY Chemical stability : Stable under normal conditions. Possibility of hazardous reactions : Hazardous polymerisation does not reactions Conditions to avoid : Pressurized container. Protect from to temperatures exceeding 50 °C. Decomposes under high temperature some risk may be expected of corr decomposition products. Can form a combustible mixture wi atmospheric pressure. Do not mix with oxygen or air abow Incompatible materials to avoid : Finely divided aluminium Potassium Calcium Powdered metals Aluminium Magnesium Zinc Hazardous decomposition products : In case of fire hazardous decompoor produced such as: Hydrogen fluoride Carbonyl halides Carbon monoxide Carbon monoxide Carbon dioxide (CO2) ECTION 11. TOXICOLOGICAL INFORMATION	
(GWP) Ozone depletion potential : 0 CDP) ECTION 10. STABILITY AND REACTIVITY Chemical stability : Stable under normal conditions. Possibility of hazardous reactions : Hazardous polymerisation does no reactions Conditions to avoid : Pressurized container. Protect from to temperatures exceeding 50 °C. Decomposes under high temperature some risk may be expected of corr decomposition products. Can form a combustible mixture wi atmospheric pressure. Do not mix with oxygen or air abow Incompatible materials to avoid : Finely divided aluminium Potassium Calcium Powdered metals Aluminium Magnesium Zinc Hazardous decomposition products : In case of fire hazardous decompoor produced such as: Hydrogen fluoride Carbonyl halides Carbon monoxide Carbon monoxide Carbon dioxide (CO2) ECTION 11. TOXICOLOGICAL INFORMATION	
(ODP) ECTION 10. STABILITY AND REACTIVITY Chemical stability : Stable under normal conditions. Possibility of hazardous reactions : Hazardous polymerisation does not reactions Conditions to avoid : Pressurized container. Protect from to temperatures exceeding 50 °C. Decomposes under high temperatu Some risk may be expected of corr decomposition products. Can form a combustible mixture wit atmospheric pressure. Do not mix with oxygen or air abow Incompatible materials to avoid : Finely divided aluminium Potassium Calcium Powdered metals Aluminium Magnesium Zinc Hazardous decomposition products : In case of fire hazardous decompor produced such as: Hydrogen fluoride Carbonyl halides Carbon monoxide Carbon dioxide (CO2) ECTION 11. TOXICOLOGICAL INFORMATION	
Chemical stability: Stable under normal conditions.Possibility of hazardous reactions: Hazardous polymerisation does no to temperatures exceeding 50 °C. Decomposes under high temperatu Some risk may be expected of com decomposition products. Can form a combustible mixture wi atmospheric pressure. Do not mix with oxygen or air abowIncompatible materials to avoid: Finely divided aluminium Potassium Calcium Powdered metals Aluminium Magnesium ZincHazardous decomposition products: In case of fire hazardous decompo produced such as: Hydrogen fluoride Carbonyl halides Carbon dioxide (CO2)ECTION 11. TOXICOLOGICAL INFORMATION	
 Possibility of hazardous reactions Conditions to avoid Pressurized container. Protect from to temperatures exceeding 50 °C. Decomposes under high temperatu Some risk may be expected of condecomposition products. Can form a combustible mixture with atmospheric pressure. Do not mix with oxygen or air about atmospheric pressure. Do not mix with oxygen or air about atmospheric pressure. Do not mix with oxygen or air about atmospheric pressure. Incompatible materials to avoid Finely divided aluminium Potassium Calcium Powdered metals Aluminium Magnesium Zinc Hazardous decomposition products In case of fire hazardous decomport produced such as: Hydrogen fluoride Carbonyl halides Carbon monoxide Carbon dioxide (CO2) ECTION 11. TOXICOLOGICAL INFORMATION 	
reactions Conditions to avoid Pressurized container. Protect from to temperatures exceeding 50 °C. Decomposes under high temperatu Some risk may be expected of com decomposition products. Can form a combustible mixture wi atmospheric pressure. Do not mix with oxygen or air abow Incompatible materials to avoid Potassium Calcium Powdered metals Aluminium Magnesium Zinc Hazardous decomposition products Pin case of fire hazardous decompor produced such as: Hydrogen fluoride Carbonyl halides Carbon monoxide Carbon dioxide (CO2) ECTION 11. TOXICOLOGICAL INFORMATION	
to temperatures exceeding 50 °C. Decomposes under high temperatu Some risk may be expected of com decomposition products. Can form a combustible mixture wi atmospheric pressure. Do not mix with oxygen or air abowIncompatible materials to avoid: Finely divided aluminium Potassium Calcium Powdered metals Aluminium Magnesium ZincHazardous decomposition products: In case of fire hazardous decompo produced such as: Hydrogen fluoride Carbonyl halides Carbon dioxide (CO2)ECTION 11. TOXICOLOGICAL INFORMATION	t occur.
avoid Potassium Calcium Powdered metals Aluminium Magnesium Zinc Hazardous decomposition products : In case of fire hazardous decompo- produced such as: Hydrogen fluoride Carbonyl halides Carbon monoxide Carbon dioxide (CO2)	re. osive and toxic th air at pressures above
products produced such as: Hydrogen fluoride Carbonyl halides Carbon monoxide Carbon dioxide (CO2)	
	sition products may be
Acute inhalation toxicity	
Pentafluoroethane : > 769000 ppm Exposure time: 4 h	
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	Species: rat	
Difluoromethane	: LC50: > 520000 ppm Exposure time: 4 h Species: rat	
Sensitisation Pentafluoroethane	: Cardiac sensitization Species: dogs Note: No-observed-effect level 75 000 ppm Lowest observable effect level 100 000 ppm	
Difluoromethane	: Cardiac sensitization Species: dogs Note: No-observed-effect level >350 000 ppm	
Repeated dose toxicity Pentafluoroethane	: Species: rat Application Route: Inhalation Exposure time: (4 Weeks) NOEL: 50000 ppm Subchronic toxicity	
Difluoromethane	: Species: rat Application Route: Inhalation Exposure time: (90 d) NOEL: 50000 ppm Subchronic toxicity	
Genotoxicity in vitro Pentafluoroethane	: Test Method: Ames test Result: negative	
Difluoromethane	: Test Method: Ames test Result: negative	
	: Cell type: Human lymphocytes Result: negative	
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	: Cell type: Chinese Hamster Ovary C Result: negative	Cells
	: Cell type: Human lymphocytes Result: negative Method: Mutagenicity (in vitro mami	nalian cytogenetic test)
	: Test Method: Chromosome aberration Result: negative	on test in vitro
Genotoxicity in vivo Difluoromethane	: Species: mouse Cell type: Bone marrow Method: Mutagenicity (micronucleus Result: negative	test)
Teratogenicity Pentafluoroethane	: Species: rabbit Application Route: Inhalation expos NOAEL,Teratog: 50,000 ppm NOAEL,Maternal: 50,000 ppm Note: Did not show teratogenic effect	
	Species: rat Application Route: Inhalation expos NOAEL,Teratog: 50,000 ppm NOAEL,Maternal: 50,000 ppm Note: Did not show teratogenic effect	ure
Difluoromethane	: Species: rat Dose: NOEL - 50,000 ppm Note: Did not show teratogenic effect	ets in animal experiments.
	Species: rabbit Dose: NOEL - 50,000 ppm Note: Did not show teratogenic effec	sts in animal experiments.
Further information	: Acute toxicity Vapours are heavier suffocation by reducing oxygen avai evapouration of the liquid may caus	lable for breathing. Rapid
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			0.0	
	Class Packing group		2.2	
	Hazard Labels		2.2	
ΙΑΤΑ	UN/ID No.		: UN 3163	
	Description of the	goods	: LIQUEFIED GAS, N.O.S	
	Class		(Pentafluoroethane, Difl	uoromethane)
	Class Hazard Labels		: 2.2 : 2.2	
	Packing instructio	n (cargo	: 200	
	aircraft)	(11)		
	Packing instruction		: 200	
	(passenger aircra	ft)		
IMDG	UN/ID No.		: UN 3163	
	Description of the	goods	: LIQUEFIED GAS, N.O.S	
			(PENTAFLUOROE THAN	NE,
	Class		DIFLUOROMETHANE) : 2.2	
	Hazard Labels		: 2.2	
	EmS Number		: F-C, S-V	
	Marine pollutant		: F-C, S-V : no	
	Marine pollutant	ORMATIO	: no	
TION 15. Inventori	Marine pollutant	ORMATIO	: no	
Inventori	Marine pollutant REGULATORY INF		: no	
Inventori US. Toxic Control A	Marine pollutant REGULATORY INF des c Substances act	: On TSC	: no N CA Inventory	ith the inventory
Inventori US. Toxic Control A Australia.	Marine pollutant REGULATORY INF ies Substances Act Industrial	: On TSC	: no N	ith the inventory
Inventori US. Toxic Control A Australia.	Marine pollutant REGULATORY INF es c Substances cct Industrial (Notification and	: On TSC	: no N CA Inventory	ith the inventory
Inventori US. Toxic Control A Australia. Chemical Assessm	Marine pollutant REGULATORY INF tes C Substances C Substances C Industrial (Notification and tent) Act	: On TSC : On the	: no N CA Inventory inventory, or in compliance wi	
Inventori US. Toxic Control A Australia. Chemical Assessm Canada.	Marine pollutant REGULATORY INF es c Substances cct Industrial (Notification and	: On TSC : On the	: no N CA Inventory	
Inventori US. Toxic Control A Australia. Chemical Assessm Canada. Environm	Marine pollutant REGULATORY INF ies C Substances C Substances C Industrial (Notification and Dent) Act Canadian	: On TSC : On the	: no N CA Inventory inventory, or in compliance wi	
Inventori US. Toxic Control A Australia. Chemical Assessm Canada. Environm Act (CEP	Marine pollutant REGULATORY INF ies C Substances C Industrial (Notification and ent) Act Canadian ental Protection	: On TSC : On the	: no N CA Inventory inventory, or in compliance wi	
Inventori US. Toxic Control A Australia. Chemical Assessm Canada. Environm Act (CEP Substanc	Marine pollutant REGULATORY INF es Substances Ct Industrial (Notification and ent) Act Canadian ental Protection A). Domestic ses List (DSL)	: On TSC : On the : All com	: no N CA Inventory inventory, or in compliance wi	the Canadian DSL.
Inventori US. Toxic Control A Australia. Chemical Assessm Canada. Environm Act (CEP Substanc Japan. Ka	Marine pollutant REGULATORY INF es Substances Ct Industrial (Notification and ent) Act Canadian ental Protection A). Domestic ses List (DSL)	: On TSC : On the : All com : On the	: no N CA Inventory inventory, or in compliance with uponents of this product are on	the Canadian DSL.
Inventori US. Toxic Control A Australia. Chemical Assessm Canada. Environm Act (CEP Substanc Japan. Ka	Marine pollutant REGULATORY INF ies C Substances Act Industrial (Notification and ent) Act Canadian ental Protection A). Domestic ces List (DSL) ashin-Hou Law List	: On TSC : On the : All com : On the	: no N CA Inventory inventory, or in compliance with apponents of this product are or inventory, or in compliance with	the Canadian DSL.

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Control Law (TCCL) List			
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	the inventory
NZIOC - New Zealand	:	On the inventory, or in compliance with	the inventory
National regulatory informa	tic	n	
SARA 302 Components	:	SARA 302: No chemicals in this mater reporting requirements of SARA Title I	
SARA 313 Components	:	SARA 313: 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	:	WARNING! This product contains a ch of California to cause cancer.	emical known to the State
		Dichloromethane 75	5-09-2
Massachusetts RTK	:	Dichloromethane 7	5-09-2
New Jersey RTK	:	Difluoromethane 7	5-10-5
Pennsylvania RTK	:	Difluoromethane 7	5-10-5
WHMIS Classification	:	A: Compressed Gas This product has been classified accor	ding to the hazard criteria
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SAFETY DATA SHEET Honeywell Genetron® 410A 00000009881 Version 2.7 Revision Date 04/18/2014 Print Date 09/25/2016 of the CPR and the MSDS contains all of the information required by the CPR. Global warming potential : 1,975 **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, 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: 09/11/2013 Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group Page 15 / 15