### Honeywell

# Genetron® HP81 (R-402B) 000000011263

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Vers	ion	2.4		

Revision Date 06/07/2014

Print Date 06/22/2015

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Genetron® HP81 (R-402B)
MSDS Number	:	00000011263
Product Use Description	:	Refrigerant
Manufacturer or supplier's details	:	Honeywell International Inc. 101 Columbia Road Morristown, NJ 07962-1057
For more information call	:	800-522-8001 +1-973-455-6300 (Monday-Friday, 9:00am-5:00pm)
In case of emergency call	:	Medical: 1-800-498-5701 or +1-303-389-1414 Transportation (CHEMTREC): 1-800-424-9300 or +1-703- 527-3887
	:	(24 hours/day, 7 days/week)

#### SECTION 2. HAZARDS IDENTIFICATION

#### **Emergency Overview**

Form	:	Liquefied	gas

- Color : colourless
- Odor : slight sweet ether-like

#### Classification of the substance or mixture

Classification of the	Gase	es under pressure, Liquefied gas
substance or mixture	Simp	ple Asphyxiant

#### GHS Label elements, including precautionary statements

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Symbol(s)	:		
	<b>•</b>		
Signal word	: Warning		
Hazard statements		nder pressure; may ex kygen and cause rapid	
Precautionary statements	: Storage:		
	Protect from sui	nlight. Store in a well-v	entilated place.
Hazards not otherwise	: May cause frost		
classified	May cause card May cause eye	liac arrhythmia. and skin irritation.	
Carcinogenicity			
No component of this product		ter than or equal to 0.	1% is identified as a known
or anticipated carcinogen by N	ITP, IARC, or OSHA.		
ECTION 3. COMPOSITION/INFO	DRMATION ON INGR	EDIENTS	
Chemical nature	: Mixture		
Chemical N	lame	CAS-No.	Concentration
Chlorodifluoromethane		75-45-6	60.00 %
Pentafluoroethane		354-33-6	38.00 %
Propane		74-98-6	2.00 %
ECTION 4. FIRST AID MEASUR	ES		
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Inhalation	:	Move to fresh air. If breathing is irregu administer artificial respiration. Use of provided a qualified operator is presen not give drugs from adrenaline-ephedi	xygen as required, nt. Call a physician. Do
Skin contact	:	After contact with skin, wash immedia If there is evidence of frostbite, bathe lukewarm (not hot) water. If water is clean, soft cloth or similar covering. If physician.	(do not rub) with not available, cover with a
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.	<b>e</b>
Notes to physician			
Treatment	:	Because of the possible disturbances catecholamine drugs, such as epinepl with special caution and only in situat support. Treatment of overexposure control of symptoms and the clinical of bitten areas as needed.	hrine, should be used ions of emergency life should be directed at the
TION 5. FIREFIGHTING MI	EASL	IRES	
Suitable extinguishing medi	a	<ul> <li>The product is not flammable.</li> <li>ASHRAE 34</li> <li>Use water spray, alcohol-resistant for carbon dioxide.</li> <li>Use extinguishing measures that are circumstances and the surrounding extinguishing exting extinguishing extinguishing extinguishing extinguishing ex</li></ul>	appropriate to local
Specific hazards during firefighting		<ul> <li>Contents under pressure.</li> <li>This product is not flammable at amb atmospheric pressure.</li> <li>However, this material can ignite who pressure and exposed to strong ignit</li> </ul>	en mixed with air under

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	Container may rupture on heating. Cool closed containers exposed to Do not allow run-off from fire fightin courses. Vapours are heavier than air and c reducing oxygen available for breat In case of fire hazardous decompos produced such as: Gaseous hydrogen chloride (HCI). Hydrogen fluoride Carbon monoxide Carbon dioxide (CO2) Carbonyl halides	g to enter drains or water an cause suffocation by hing.
Special protective equipment for firefighters	<ul> <li>In the event of fire and/or explosion Wear full protective clothing and se apparatus. No unprotected exposed skin areas</li> </ul>	elf-contained breathing
TION 6. ACCIDENTAL RELE	ASE MEASURES	
CTION 6. ACCIDENTAL RELE	: Immediately evacuate personnel to	
	: Immediately evacuate personnel to Keep people away from and upwind Wear personal protective equipment must be kept away. Remove all sources of ignition.	of spill/leak. . Unprotected persons
	<ul> <li>Immediately evacuate personnel to Keep people away from and upwind Wear personal protective equipment must be kept away.</li> <li>Remove all sources of ignition.</li> <li>Avoid skin contact with leaking liquid Ventilate the area.</li> <li>After release, disperses into the air.</li> <li>Vapours are heavier than air and car reducing oxygen available for breath</li> </ul>	of spill/leak. . Unprotected persons d (danger of frostbite). n cause suffocation by ing.
	<ul> <li>Immediately evacuate personnel to Keep people away from and upwind Wear personal protective equipment must be kept away.</li> <li>Remove all sources of ignition.</li> <li>Avoid skin contact with leaking liquid Ventilate the area.</li> <li>After release, disperses into the air.</li> <li>Vapours are heavier than air and ca</li> </ul>	of spill/leak. . Unprotected persons d (danger of frostbite). n cause suffocation by ing. w areas. eturn until air has been
	<ul> <li>Immediately evacuate personnel to Keep people away from and upwind Wear personal protective equipment must be kept away.</li> <li>Remove all sources of ignition.</li> <li>Avoid skin contact with leaking liquid Ventilate the area.</li> <li>After release, disperses into the air.</li> <li>Vapours are heavier than air and ca reducing oxygen available for breath Avoid accumulation of vapours in low Unprotected personnel should not re tested and determined safe.</li> </ul>	of spill/leak. . Unprotected persons d (danger of frostbite). n cause suffocation by ing. w areas. eturn until air has been = 19.5%.
Personal precautions	<ul> <li>Immediately evacuate personnel to 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 ca 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 &gt;</li> <li>Prevent further leakage or spillage if</li> </ul>	of spill/leak. . Unprotected persons d (danger of frostbite). n cause suffocation by ing. w areas. eturn until air has been = 19.5%.
Personal precautions Environmental precautions	<ul> <li>Immediately evacuate personnel to 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 ca 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 &gt;</li> <li>Prevent further leakage or spillage if The product evapourates readily.</li> </ul>	of spill/leak. . Unprotected persons d (danger of frostbite). n cause suffocation by ing. w areas. eturn until air has been = 19.5%.

#### SAFETY DATA SHEET Honeywell Genetron® HP81 (R-402B) 000000011263 Version 2.4 Revision Date 06/07/2014 Print Date 06/22/2015 SECTION 7. HANDLING AND STORAGE 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. 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 ÷ The product is not flammable. against fire and explosion Can form a combustible mixture with air at pressures above atmospheric pressure. Storage Requirements for storage Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even areas and containers 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. Further information on Store in original container. : storage conditions Keep containers tightly closed in a cool, well-ventilated place. Keep away from direct sunlight. Page 5 / 16

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Protective measures	:		ot breathe v			
		Ensu				showers are close to
Engineering measures	:	Perfo		perations only at		torage and handling. with exhaust
Eye protection	:	Safet	ashes are li	iate: ⁄ith side-shields kely to occur, we shield, giving co		rotection to eyes
Hand protection	:	In ca Prote Neop	ective gloves orene gloves		-	DVes
Skin and body protection	:	Avoid		ct with leaking lid ting gloves/ face		
Respiratory protection	÷	equip Wear Vapo reduc For r	oment. r a positive-pours are hea bing oxygen escue and r	available for bre	d-air resp can caus athing.	
Hygiene measures	÷	pract Ensu Avoic Remo	ice. Ire adequate I contact wi ove and wa	dance with good e ventilation, esp th skin, eyes and sh contaminated othes separately.	ecially in I clothing clothing	
Exposure Guidelines Components CAS-N	-		Value	Control	Upda	Basis

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Chlorodifluorom et hane	75-45-6	TWA : time weighted average	(1,000 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
Chlorodifluorom et hane	75-45-6	REL : Recomm ended exposure limit (REL):	3,500 mg/m3 (1,000 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Chlorodifluorom et hane	75-45-6	STEL : Short term exposure limit	4,375 mg/m3 (1,250 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Chlorodifluorom et hane	75-45-6	TWA : time weighted average	3,500 mg/m3 (1,000 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
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.
Propane	74-98-6	TWA : time weighted average	(1,000 ppm)	01 2010	ACGIH:US. ACGIH Threshold Limit Values
Propane	74-98-6	time weighted	(1,000 ppm)		Threshold Limit

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Propane	74-98-6	REL : Recomm ended exposure limit (REL):	1,800 mg/m3 (1,000 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Propane	74-98-6	PEL : Permissi ble exposure limit	1,800 mg/m3 (1,000 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Propane	74-98-6	TWA : time weighted average	1,800 mg/m3 (1,000 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Physical state Color		quefied gas			
Color		lourless			
Odor pH		ght sweet eth ote: neutral	ier-like		
Melting point/freezing p		ote: not deter	mined		
Boiling point/boiling rar		17.4 °C			
Flash point	: No	ote: not applic	cable		
Evaporation rate	: > M		ared to CCl4.		
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Lower explosion limit	: Note: None	
Upper explosion limit	: Note: None	
Vapor pressure	: 10,052 hPa at 21.1 °C(70.0 °F) 22,635 hPa at 54.4 °C(129.9 °F)	
Vapor density	: 3.3 Note: (Air = 1.0)	
Density	: 1.14 g/cm3 at 21.1 °C	
Water solubility	: Note: not determined	
Ignition temperature	: Note: not determined	
Decomposition temperature	: > 250 °C	
Molecular weight	: 94.7 g/mol	
Global warming potential (GWP)	: 1,292	
TION 10. STABILITY AND R	EACTIVITY	
Chemical stability	: Stable under normal conditions.	
Possibility of hazardous reactions	: Hazardous polymerisation does not or	ccur.
Conditions to avoid	: Pressurized container. Protect from su expose to temperatures exceeding 50 Decomposes under high temperature.	
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	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	air at pressures above
Incompatible materials to avoid	: Potassium Calcium Powdered metals Finely divided aluminium Magnesium Zinc	
Hazardous decomposition products	<ul> <li>In case of fire hazardous decomposit produced such as: Gaseous hydrogen chloride (HCI). Hydrogen fluoride Carbonyl halides Carbon monoxide</li> </ul>	tion products may be
	Carbon dioxide (CO2)	
CTION 11. TOXICOLOGICAL Acute inhalation toxicity Chlorodifluoromethane		
Acute inhalation toxicity	. INFORMATION : LC50: > 300000 ppm Exposure time: 4 h	
Acute inhalation toxicity Chlorodifluoromethane	<ul> <li>INFORMATION</li> <li>: LC50: &gt; 300000 ppm Exposure time: 4 h Species: rat</li> <li>: &gt; 769000 ppm Exposure time: 4 h</li> </ul>	
Chlorodifluorom ethane Pentafluoroethane	<ul> <li>INFORMATION</li> <li>: LC50: &gt; 300000 ppm Exposure time: 4 h Species: rat</li> <li>: &gt; 769000 ppm Exposure time: 4 h Species: rat</li> <li>: LC50: &gt; 800000 ppm Exposure time: 15 min</li> </ul>	

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Pentafluoroethane	: Cardiac sensitization	
	Species: dogs	
	Note: No-observed-effect level	
	75 000 ppm	
	Lowest observable effect level 100 000 ppm	
Repeated dose toxicity		
Chlorodifluoromethane	: Species: rat	
	Application Route: Inhalation	
	Exposure time: Lifetime Exposure ()	
	NOEL: 10000 ppm	
	Lifetime exposure of male rats was a increase in salivary gland fibrosarcom	
	increase in salivary gland libiosarcon	las.
Pentafluoroethane	: Species: rat	
	Application Route: Inhalation	
	Exposure time: (4 Weeks)	
	NOEL: 50000 ppm Subchronic toxicity	
Pentafluoroethane	: Test Method: Ames test	
	Result: negative	
	: Cell type: Human lymphocytes	
	Result: negative	
	: Cell type: Chinese Hamster Ovary Ce	ells
	Result: negative	
<b>T</b>		
Teratogenicity Pentafluoroethane	: Species: rabbit	
1 childhoothane	Application Route: Inhalation exposu	re
	NOAEL, Teratog: 50,000 ppm	-
	NOAEL, Maternal: 50,000 ppm	
	Note: Did not show teratogenic effect	s in animal experiments.
	Species: rat	
	Application Route: Inhalation exposu	re
	NOAEL, Teratog: 50,000 ppm	
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	NOAEL,Maternal: 50,000 ppm			
	Note: Did not show teratogenic effects	s in animal experiments.		
Further information	can cause suffocation by reducing ox breathing. Rapid evapouration of the	: Note: Acute Health Hazard Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Rapid evapouration of the liquid may cause frostbite. May cause cardiac arrhythmia.		
CTION 12. ECOLOGICAL IN	FORMATION			
Toxicity to fish				
Chlorodifluoromethane	: static test			
	LC50: 777 mg/l Exposure time: 96 h			
	Species: Danio rerio (zebra fish)			
Toxicity to daphnia and othe	er aquatic invertebrates			
Chlorodifluoromethane	: static test			
	EC50: 433 mg/l Exposure time: 48 h			
	Species: Daphnia magna (Water flea)	)		
Biodegradability				
Pentafluoroethane	: Result: Not readily biodegradable. Value: 5 %			
	Method: OECD 301 D			
Further information on ec	ology			
Additional ecological information	: This product contains greenhouse ga contribute to global warming. Do NOT To comply with provisions of the U.S. residual must be recovered.	Vent to the atmosphere. Clean Air Act, any		
	This product is subject to U.S. Environ Agency Clean Air Act Regulations at Section 611 requires the following lab of this product:	40 CFR Part 82. bel text on all shipments		
	Warning: Contains Chlorodifluoromet a substance which harms public heal			

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		destroying ozone in the upper atm Refer to sections 610 and 612 for unacceptable uses for this product	list of acceptable and		
ECTION 13.	DISPOSAL CONSIDERA	ATIONS			
Disposal methods :		Observe all Federal, State, and Lo regulations.	ocal Environmental		
A		This product is subject to U.S. Environmental Protection Agency Clean Air Act Regulations Section 608 in 40 CFR Part 82 regarding refrigerant recycling.			
ECTION 14.	TRANSPORT INFORMA	ATION			
ECTION 14. DOT	UN/ID No. Proper shipping name	: UN 3163 : LIQUEFIED GAS, N.O. (Chlorodifluoromethane Propane)			
	UN/ID No.	: UN 3163 : LIQUEFIED GAS, N.O. (Chlorodifluoromethane			
	UN/ID No. Proper shipping name Class Packing group	<ul> <li>UN 3163</li> <li>LIQUEFIED GAS, N.O. (Chlorodifluoromethane Propane)</li> <li>2.2</li> <li>2.2</li> <li>2.2</li> <li>LIQUEFIED GAS, N.O. (Chlorodifluoromethane GAS)</li> </ul>	, Pentafluoroethane,		
DOT	UN/ID No. Proper shipping name Class Packing group Hazard Labels UN/ID No.	<ul> <li>: UN 3163</li> <li>: LIQUEFIED GAS, N.O. (Chlorodifluoromethane Propane)</li> <li>2.2</li> <li>2.2</li> <li>2.2</li> <li>3.163</li> <li>: LIQUEFIED GAS, N.O. (Chlorodifluoromethane Propane)</li> <li>: 2.2</li> <li>: 2.2</li> <li>: 2.2</li> </ul>	, Pentafluoroethane,		
DOT	UN/ID No. Proper shipping name Class Packing group Hazard Labels UN/ID No. Description of the goo Class Hazard Labels Packing instruction (ca	<ul> <li>: UN 3163</li> <li>: LIQUEFIED GAS, N.O. (Chlorodifluoromethane Propane)</li> <li>2.2</li> <li>2.2</li> <li>2.2</li> <li>3.163</li> <li>: LIQUEFIED GAS, N.O. (Chlorodifluoromethane Propane)</li> <li>: 2.2</li> <li>: 2.2</li> <li>: 2.2</li> </ul>	, Pentafluoroethane,		
DOT	UN/ID No. Proper shipping name Class Packing group Hazard Labels UN/ID No. Description of the goo Class Hazard Labels Packing instruction (ca aircraft) Packing instruction	<ul> <li>UN 3163</li> <li>LIQUEFIED GAS, N.O. (Chlorodifluoromethane Propane)</li> <li>2.2</li> <li>2.2</li> <li>2.2</li> <li>2.2</li> <li>3.163</li> <li>LIQUEFIED GAS, N.O. (Chlorodifluoromethane Propane)</li> <li>2.2</li> <l< td=""><td>.S. .S. h. Pentafluoroethane, .S. IE THANE,</td></l<></ul>	.S. .S. h. Pentafluoroethane, .S. IE THANE,		
DOT	UN/ID No. Proper shipping name Class Packing group Hazard Labels UN/ID No. Description of the goo Class Hazard Labels Packing instruction (ca aircraft) Packing instruction (passenger aircraft) UN/ID No.	<ul> <li>UN 3163</li> <li>LIQUEFIED GAS, N.O. (Chlorodifluoromethane Propane)</li> <li>2.2</li> <li>2.2</li> <li>2.2</li> <li>2.2</li> <li>3.163</li> <li>LIQUEFIED GAS, N.O. (Chlorodifluoromethane Propane)</li> <li>2.2</li> <l< td=""><td>.S. .S. https://www.second.org/second-se second-second-second-second-second-second-second-second-second-second-second-second-second-second-second-second- second-second-second-second-second-second-second-second-second-second-second-second-second-second-second-second second-se second-sec</td></l<></ul>	.S. .S. https://www.second.org/second-se second-second-second-second-second-second-second-second-second-second-second-second-second-second-second-second- second-second-second-second-second-second-second-second-second-second-second-second-second-second-second-second second-se second-sec		

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EmS Number Marine pollutant	: F-C, S-V : no		
ECTION 15. REGULATORY INF	FORMATION		
Inventories			
US. Toxic Substances Control Act	: On TSCA Inventory		
Australia. AICS	: On the inventory, or in compliance with the inventory		
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	All components of this product are on the Canadian DSL.		
Japan. ENCS	: On the inventory, or in compliance with	h the inventory	
Korea. KECI	: On the inventory, or in compliance with the inventory		
Philippines. PICCS	: On the inventory, or in compliance with the inventory		
China. IECSC	On the inventory, or in compliance with the inventory		
New Zealand. Inventory of Chemicals (NZloC), as published by ERMA New Zealand	: On the inventory, or in compliance with the inventory		
National regulatory informa	tion		
SARA 302 Components	: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.		
SARA 313 Components	The following components are subject to reporting levels established by SARA Title III, Section 313: Chlorodifluoromethane 75-45-6		
SARA 311/312 Hazards	: Acute Health Hazard Sudden Release of Pressure Hazard		
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California Prop. 65	:		use cancer, birth	ny chemicals known to State of defects, or any other
Massachusetts RTK		Chlorodifluorom Propane	ethane	75-45-6 74-98-6
New Jersey RTK		Chlorodifluorom Propane	ethane	75-45-6 74-98-6
Pennsylvania RTK	:	Chlorodifluorom ethane Propane		75-45-6 74-98-6
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	:	1,292		
ECTION 16. OTHER INFORMA	тіс	N		
Health hazard Flammability Physical Hazard Instability	:	HMIS III 1 0	<b>NFPA</b> 2 1 0	
Hazard rating and rating sys use of individuals trained in t				formation is intended solely for the
Further information				
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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: 02/19/2013

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group