Honeywell

rsion 2.6		Revision Date 04/10/2014	Print Date 06/22/20
CTION 1. PRODUCT AND CC	DIVIP	ANY IDENTIFICATION	
Product name	:	Genetron® HP80 (R-402A)	
MSDS Number	:	00000009892	
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): 1-800-424-930	
	•	+1-703-527-3887	
	•		
	:	(24 hours/day, 7 days/week)	
	:	(24 hours/day, 7 days/week)	
CTION 2. HAZARDS IDENTIF			
CTION 2. HAZARDS IDENTIF Emergency Overview			
Emergency Overview Form		TION : Liquefied gas	
Emergency Overview Form Color		TION : Liquefied gas : colourless	
Emergency Overview Form		TION : Liquefied gas	
Emergency Overview Form Color		TION : Liquefied gas : colourless	
Emergency Overview Form Color		TION : Liquefied gas : colourless : weak	
Emergency Overview Form Color Odor Classification of the substate Classification of the substate	ince	TION	
Emergency Overview Form Color Odor Classification of the substa	ince	TION : Liquefied gas : colourless : weak • or mixture	
Emergency Overview Form Color Odor Classification of the substand or mixture	I nce ce	 TION : Liquefied gas : colourless : weak e or mixture : Gases under pressure, Liquefied gas Simple Asphyxiant 	
Emergency Overview Form Color Odor Classification of the substand or mixture	I nce ce	TION	

Honeywell SAFETY DATA SHEET Genetron® HP80 (R-402A) 00000009892 Version 2.6 Revision Date 04/10/2014 Print Date 06/22/2015 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	Mixture		
Chemical Nam	e	CAS-No.	Concentration
Pentafluoroethane		354-33-6	58.00 - 62.00 %
Chlorodifluoromethane		75-45-6	36.00 - 40.00 %
Propane		74-98-6	1.00 - 2.00 %
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AFETY DATA SHEET	Honeywell		
enetron® HP80 (R-40)	2A)		
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CTION 4. FIRST AID MEASUR	ES		
Inhalation	: Move to fresh air. If breathing is irra artificial respiration. Use oxygen as qualified operator is present. Call a from adrenaline-ephedrine group.	s required, provided a	
Skin contact	: After contact with skin, wash imme there is evidence of frostbite, bathe (not hot) water. If water is not avai cloth or similar covering. If sympto	e (do not rub) with lukewarm lable, cover with a clean, soft	
Eye contact	: Rinse immediately with plenty of w for at least 15 minutes. In case of 1 lukewarm, not hot. If symptoms pe	rostbite water should be	
Ingestion	: Unlikely route of exposure. As this inhalation section. Do not induce v advice. Call a physician immediate	omiting without medical	
Notes to physician			
Treatment	: Because of the possible disturbanc catecholamine drugs, such as epin special caution and only in situatio Treatment of overexposure should symptoms and the clinical condition needed.	ephrine, should be used with ns of emergency life support. be directed at the control of	
CTION 5. FIREFIGHTING MEA	SURES		
Suitable extinguishing media	 The product is not flammable. ASHRAE 34 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 a	ambient temperatures and	
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Special protective equipmen	 pressure and expo Container may rup Cool closed contai Do not allow run-of courses. Vapours are heave reducing oxygen a In case of fire haza produced such as: Gaseous hydrogen Hydrogen fluoride Carbon monoxide Carbon dioxide (Ca Carbonyl halides In the event of fire 	erial can ignite when beed to strong ignition ture on heating. ners exposed to fire w ff from fire fighting to er than air and can can vailable for breathing. ardous decomposition in chloride (HCI). O2) and/or explosion do a	sources. with water spray. enter drains or water ause suffocation by products may be
for firefighters			s and protective suit.
CTION 6. ACCIDENTAL REL	SE MEASURES		
CTION 6. ACCIDENTAL REL	 Immediately evacual Keep people away Wear personal prote must be kept away. Remove all sources Avoid skin contact v Ventilate the area. After release, dispe Vapours are heavier reducing oxygen av Avoid accumulation Unprotected person tested and determin 	s of ignition. with leaking liquid (dat rses into the air. r than air and can cat ailable for breathing. of vapours in low are unel should not return	pill/leak. nprotected persons nger of frostbite). use suffocation by eas. until air has been
	 Immediately evacual Keep people away Wear personal prote must be kept away. Remove all sources Avoid skin contact w Ventilate the area. After release, dispe Vapours are heavier reducing oxygen aw Avoid accumulation Unprotected person tested and determine Ensure that the oxy 	from and upwind of s ective equipment. Ur s of ignition. with leaking liquid (dat reses into the air. r than air and can can railable for breathing. of vapours in low are inel should not return hed safe. rgen content is >= 19.	pill/leak. protected persons nger of frostbite). use suffocation by eas. until air has been 5%.
Personal precautions	 Immediately evacual Keep people away Wear personal prote must be kept away. Remove all sources Avoid skin contact with Ventilate the area. After release, dispendice Vapours are heavier reducing oxygen away Avoid accumulation Unprotected persons tested and determine Ensure that the oxy Prevent further leak 	from and upwind of s ective equipment. Ur s of ignition. with leaking liquid (dat reses into the air. r than air and can can ailable for breathing. of vapours in low are inel should not return hed safe. rgen content is >= 19. cage or spillage if safe irates readily.	pill/leak. protected persons nger of frostbite). use suffocation by eas. until air has been 5%.

ersion 2.6 Methods for cleaning up : ECTION 7. HANDLING AND STOR/ Handling Handling :	Revision Date 04/10/2014 Print Date 06/22/201 Ventilate the area. Ventilate the area. AGE 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.
OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO	Revision Date 04/10/2014 Print Date 06/22/201 Ventilate the area. Ventilate the area. AGE 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.
ECTION 7. HANDLING AND STORA Handling Handling :	Ventilate the area. AGE 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.
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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. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C.
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 and do not expose to temperatures exceeding 50 °C.
	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 against : fire and explosion	The product is not flammable. Can form a combustible mixture with air at pressures above atmospheric pressure.
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.
ECTION 8. EXPOSURE CONTROLS	S/PERSONAL PROTECTION
Protective measures :	Do not breathe vapour.
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Engineering measures Eye protection	:	Avoid Ensu the w Gene Perfo	l contact wit re that eyev orkstation lo eral room ve	ocation.	•	Print Date 06/22/201
	:	Ensu the w Gene Perfo	re that eyev orkstation lo eral room ve	wash stations and ocation.	•	
	:	Perfo		ntilation is adeque		
Eye protection	_	ventila	rm filling op ation faciliti	perations only at s		torage and handling. with exhaust
	:	Safet	ashes are lil	iate: /ith side-shields kely to occur, wea shield, giving con		otection to eyes
Hand protection	:	In ca Prote Neop	ective gloves rene gloves		C	oves
Skin and body protection	:	Avoid		ct with leaking liq ting gloves/ face		
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.		pirator. se suffocation by		
Hygiene measures	:	practi Ensu Avoid Remo	ice. re adequate I contact wit ove and was	ance with good in e ventilation, espe th skin, eyes and sh contaminated othes separately.	ecially in clothing.	
Exposure Guidelines					1	·
Components CAS-N	0.		Value	Control parameters	Upda te	Basis

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e time weighted average establish Honeyweighted average Chlorodifluoromet 75-45-6 TWA : time weighted average 2008 ACGIH:L Threshol Values 2008 ACGIH:L Threshol Values 2008 ACGIH:L Threshol Values 2008 ACGIH:L Threshol Values 2005 NIOSH/G NIOSH: Guide to Hazards 2005 NIOSH/G NIOSH: Guide to Hazards 2005 And ACGIH:L Threshol Values 2005 ACGIH:L Threshol Values 20	33-6 TWA : 4,900 mg/m3 2007 WEEL:US. AIHA time (1,000 ppm) Workplace Environmental average weighted Environmental Exposure Level (WEEL) Guides WEEL:US. AIHA Workplace	ethan 354-33-6
hanetime weighted averagetime weighted averageThreshol ValuesChlorodifluorom et hane75-45-6REL : Recomm ended exposure limit (REL):3,500 mg/m3 (1,000 ppm)2005NIOSH/G NIOSH: Guide to HazardsChlorodifluorom et hane75-45-6STEL : Short term exposure limit4,375 mg/m3 (1,250 ppm)2005NIOSH/G NIOSH: Guide to HazardsChlorodifluorom et hane75-45-6STEL : term exposure limit4,375 mg/m3 (1,250 ppm)2005NIOSH/G NIOSH: Guide to HazardsChlorodifluorom et hane75-45-6TWA : time weighted3,500 mg/m3 (1,000 ppm)1989Z1A:US. Table Z- CFR 191	time established by Honeywell	ethan 354-33-6
haneRecomm ended exposure limit (REL):(1,000 ppm)NIOSH: Guide to HazardsChlorodifluorom et hane75-45-6STEL : Short term exposure limit4,375 mg/m3 (1,250 ppm)2005NIOSH/G NIOSH/G NIOSH: Guide to HazardsChlorodifluorom et hane75-45-6TTL : term exposure limit3,500 mg/m3 (1,000 ppm)1989Z1A:US. Table Z- CFR 191	time Threshold Limit Values	vromet 75-45-6
hane Short term exposure limit (1,250 ppm) NIOSH: Guide to Hazards Chlorodifluorom et 75-45-6 TWA : hane 75-45-6 TWA : time weighted (1,250 ppm) 1989 Z1A:US. Table Z- CFR 191	Recomm (1,000 ppm) NIOSH: Pocket ended exposure limit NIOSH: Pocket Guide to Chemical Hazards	romet 75-45-6
hane time (1,000 ppm) Table Z- weighted CFR 191	Short (1,250 ppm) NIOSH: Pocket Guide to Chemical Hazards	romet 75-45-6
	time (1,000 ppm) Table Z-1-A (29	romet 75-45-6
	time 2010 Threshold Limit Values	74-98-6

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98-6	REL : Recomm ended exposure limit (REL):	1,800 mg/m3 (1,000 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical
	Recomm ended exposure limit (REL):		2005	NIOSH: Pocket
98-6	-			Hazards
	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)
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)
	-			
: Not	e: neutral			
: Not	e: no data a	available		
: -49	9.2 °C			
: Not	e: not applic	cable		
: >1 Me	thod: Compa	ared to CCI4.		
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	: Liqu : colo : wea : Not : Not : -49 : Not	98-6 TWA : time weighted average IEMICAL PROPERTI : Liquefied gas : colourless : weak : Note: neutral : Note: no data a : -49.2 °C : Note: not applic : > 1 Method: Compa	98-6 TWA : 1,800 mg/m3 (1,000 ppm) HEMICAL PROPERTIES : Liquefied gas : colourless : weak : Note: neutral : Note: no data available : -49.2 °C : Note: not applicable	98-6 TWA : time weighted average 1,800 mg/m3 (1,000 ppm) 1989 HEMICAL PROPERTIES : Liquefied gas : colourless : colourless : weak : Note: neutral : Note: no data available : -49.2 °C : Note: not applicable : > 1 Method: Compared to CCl4.

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Lower explosion limit	: Note: None	
Upper explosion limit	: Note: None	
Vapor pressure	: 11,928 hPa at 21.1 °C(70.0 °F) 26,883 hPa at 54.4 °C(129.9 °F)	
Vapor density	: 3.5 Note: (Air = 1.0)	
Density	: 1.14 g/cm3 at 21.1 °C	
Water solubility	: Note: no data available	
Solubility in other solvents	: Note: no data available	
Partition coefficient: n-octanol/water	: log Pow: 1.48 Test substance: Ethane, pentafluoro-	(HFC-125)
	log Pow: 1.08 - 1.13 Test substance: Chlorodifluoromethar	ne (HCFC-22)
Ignition temperature	: Note: not determined	
Decomposition temperature	: >250 °C	
Global warming potential	: 2,040	
(GWP) Ozone depletion potential (ODP)	: 0.02	
CTION 10. STABILITY AND R	EACTIVITY	
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Conditions to avoid	 Pressurized container. Protect from s to temperatures exceeding 50 °C. 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 	ive and toxic air at pressures above
Incompatible materials to avoid	: Finely divided aluminium Potassium Calcium Powdered metals Aluminium Magnesium Zinc	
Hazardous decomposition products	 In case of fire hazardous decomposit produced such as: Gaseous hydrogen chloride (HCI). Hydrogen fluoride Carbonyl halides Carbon monoxide Carbon dioxide (CO2) 	ion products may be
CTION 11. TOXICOLOGICAL		
CTION 11. TOXICOLOGICAL Acute inhalation toxicity Pentafluoroethane		
Acute inhalation toxicity	- INFORMATION : > 769000 ppm Exposure time: 4 h	
Acute inhalation toxicity Pentafluoroethane	 INFORMATION : > 769000 ppm Exposure time: 4 h Species: rat : LC50: > 300000 ppm Exposure time: 4 h 	
Pentafluoroethane Chlorodifluoromethane	 INFORMATION : > 769000 ppm Exposure time: 4 h Species: rat : LC50: > 300000 ppm Exposure time: 4 h Species: rat : LC50: > 800000 ppm Exposure time: 15 min 	

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Pentafluoroethane	: Cardiac sensitization Species: dogs Note: No-observed-effect level 75 000 ppm Lowest observable effect level 100 000 ppm	
Chlorodifluoromethane	: Cardiac sensitization Species: dogs Note: Chlorodifluoromethane (HCFC-22 threshold (dog): 50000 ppm.	?): Cardiac sensitisation
Repeated dose toxicity Pentafluoroethane	: Species: rat Application Route: Inhalation Exposure time: (4 Weeks) NOEL: 50000 ppm Subchronic toxicity	
Chlorodifluoromethane	: Species: rat Application Route: Inhalation Exposure time: Lifetime Exposure () NOEL: 10000 ppm Lifetime exposure of male rats was ass increase in salivary gland fibrosarcomas	
Pentafluoroethane	: Test Method: Ames test Result: negative	
	: Cell type: Human lymphocytes Result: negative	
	: Cell type: Chinese Hamster Ovary Cells Result: negative	5
Teratogenicity Pentafluoroethane	: Species: rabbit Application Route: Inhalation exposure NOAEL,Teratog: 50,000 ppm NOAEL,Maternal: 50,000 ppm Note: Did not show teratogenic effects i	n animal experiments.
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	Species: rat	
	Application Route: Inhalation exposu NOAEL,Teratog: 50,000 ppm	re
	NOAEL, Maternal: 50,000 ppm	
	Note: Did not show teratogenic effect	s in animal experiments.
Further information	: Note: Acute Health Hazard Vapours	are heavier than air and
	can cause suffocation by reducing ox	ygen available for
	breathing. Irritating to eyes and skin.	
	liquid may cause frostbite. May cause	e cardiac armythmia.
TION 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 eco	ology	
Additional ecological information	This product contains greenhouse ga to global warming. Do NOT vent to th with provisions of the U.S. Clean Air	e atmosphere. To comply
	recovered. This product is subject to U.S. Enviro	nmental Protection
	Agency Clean Air Act Regulations at	
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enetror	n® HP80 (R-402A)			
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ersion 2.6		Revision	Date 04/10/2014	Print Date 06/22/201
		this product Warning: (a substanc destroying Refer to se	t: Contains Chlorodifluorom	ealth and environment by osphere. ist of acceptable and
ECTION 13. Disposal	DISPOSAL CONSIDER methods :		l Federal, State, and Lo	cal Environmental
Note	:	This produ Clean Air A		ronmental Protection Agency 608 in 40 CFR Part 82
ECTION 14.	TRANSPORT INFORM	ATION		
DOT	UN/ID No. Proper shipping name Class Packing group Hazard Labels	• <u> </u>	UN 3163 LIQUEFIED GAS, N.O. (Pentafluoroethane, Ch Propane) 2.2 2.2	
ΙΑΤΑ	UN/ID No. Description of the goo		UN 3163 LIQUEFIED GAS, N.O. (Pentafluoroethane, Ch Propane)	
	Class Hazard Labels Packing instruction (ca aircraft) Packing instruction (passenger aircraft)	: argo :	2.2 2.2 200 200	
IMDG	UN/ID No. Description of the goo		UN 3163 LIQUEFIED GAS, N.O.	S.
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Honeywell SAFETY DATA SHEET Genetron® HP80 (R-402A) 00000009892 Version 2.6 Revision Date 04/10/2014 Print Date 06/22/2015 (PENTAFLUOROETHANE, CHLORODIFLUOROMETHANE, PROPANE) 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 Australia. Industrial : On the inventory, or in compliance with the inventory Chemical (Notification and Assessment) Act Canada. Canadian : All components of this product are on the Canadian DSL. Environmental Protection Act (CEPA). Domestic Substances List (DSL) Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory Korea. Toxic Chemical : On the inventory, or in compliance with the inventory Control Law (TCCL) List Philippines. The Toxic : On the inventory, or in compliance with the inventory Substances and Hazardous and Nuclear Waste Control Act China. Inventory of Existing : On the inventory, or in compliance with the inventory Chemical Substances NZIOC - New Zealand : On the inventory, or in compliance with the inventory National regulatory information

SARA 302 Components : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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SARA 313 Components	 The following components are su established by SARA Title III, Sec Chlorodifluoromethane 			
SARA 311/312 Hazards	: Acute Health Hazard Sudden Release of Pressure Haz	ard		
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.			
Massachusetts RTK	: Chlorodifluoromethane : Propane	75-45-6 74-98-6		
New Jersey RTK	ChlorodifluoromethanePentafluoroethanePropane	75-45-6 354-33-6 74-98-6		
Pennsylvania RTK	Chlorodifluorom ethanePentafluoroethanePropane	75-45-6 354-33-6 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	: 2,040			
Ozone depletion potential (ODP)	: 0.02			
CTION 16. OTHER INFORMAT	ION			
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	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: 04/06/2011

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group