Honeywell

		Revision Date 04/14/2014	Print Date 03/14
TION 1. PRODUCT AND CO	ΜΡΔΝΥ		
Product name	: Tet	rahydrofuran (340, 341, 342, 343)	
MSDS Number	: 000	0000011440	
Product Use Description	: So	lvent	
		neywell International Inc.	
details		5 Tabor Road rris Plains, NJ 07950-2546	
For more information call		800-368-0050	
		-231-726-3171 onday-Friday, 9:00am-5:00pm)	
In case of emergency call	: Tra	edical: 1-800-498-5701 or +1-303-389 ansportation (CHEMTREC): 1-800-42 -703-527-3887	
	: : (24	hours/day, 7 days/week)	
TION 2. HAZARDS IDENTIFI	CATIO	N	
TION 2. HAZARDS IDENTIFI Emergency Overview	CATIO	Ν	
	CATIO		
Emergency Overview	: lic		
Emergency Overview Form	: lic : cl	quid	
Emergency Overview Form Color Odor	: lic : cl : et	quid ear and colourless her-like	
Emergency Overview Form Color Odor Classification of the substat	: lic : cl : et n ce or	quid ear and colourless her-like mixture	
Emergency Overview Form Color Odor Classification of the substat	: lic : cl : et nce or :e : F A E C	quid ear and colourless her-like mixture Clammable liquids, Category 2 Acute toxicity, Category 4, Oral Eye irritation, Category 2A Carcinogenicity, Category 2	
Emergency Overview Form Color Odor Classification of the substan Classification of the substanc	: lic : cl : et nce or :e : F A E C	quid ear and colourless her-like mixture Tammable liquids, Category 2 Acute toxicity, Category 4, Oral Eye irritation, Category 2A	xposure, Category 3,

SAFETY DATA SHEET Honeywell Tetrahydrofuran (340, 341, 342, 343) 000000011440 Version 1.5 Revision Date 04/14/2014 Print Date 03/14/2016 Respiratory system GHS Label elements, including precautionary statements Symbol(s) Signal word : Danger Hazard statements : Highly flammable liquid and vapour. Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation. Suspected of causing cancer. : Prevention: Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection/ face protection. Response: IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Page 2 / 15

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151011 1.5		Newsion Date 04/14/2014	Finit Date 03/14/2010
		IF exposed or concerned: Get me Rinse mouth. If eye irritation persists: Get medic In case of fire: Use dry sand, dry o foam for extinction.	cal advice/ attention.
		Storage: Store in a well-ventilated place. Keep cool. Store locked up.	eep container tightly closed.
		Disposal: Dispose of contents/ container to plant.	an approved waste disposal
Carcinogenicity	,		
ACGIH:	Tetrahydrofuran A3: Confirmed a	109-99 nimal carcinogen	9-9
CTION 3. COMPC	SITION/INFORM	ATION ON INGREDIENTS	
Formula	:	C4H8O	
Chemical nature	:	Substance	
	Chemical Name	CAS-No.	Concentration
Tetrahydrofuran		109-99-9	100.00 %
CTION 4. FIRST A	AID MEASURES		
Inhalation		Remove to fresh air. If not breathing breathing is difficult, give oxygen. U provided a qualified operator is pres	lse oxygen as required,
Skin contact		Wash off immediately with plenty of minutes. Take off contaminated clot	
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			24.0 00, 14/20
		Wash contaminated clothing before re	e-use. Call a physician.
Eye contact	:	Rinse immediately with plenty of wate for at least 15 minutes. Call a physicia	
Ingestion	:	Do not induce vomiting without medic anything by mouth to an unconscious	
Notes to physician			
Treatment	:	Treat symptomatically.	
CTION 5. FIREFIGHTING ME		IRES	
Suitable extinguishing media		: Alcohol-resistant foam	
Suitable extinguishing media	a i	Carbon dioxide (CO2)	
		Dry chemical Cool closed containers exposed to fi	re with water spray.
Unsuitable extinguishing		Do not use a solid water stream as it	
media		fire.	andy source and spicad
Specific hazards during firefighting		Extremely flammable. Vapours may form explosive mixture Vapours are heavier than air and ma Vapors may travel to areas away from igniting/flashing back to vapor source May form explosive peroxides.	ay spread along floors. m work site before
		In case of fire hazardous decomposi	tion products may be
		produced such as: Carbon monoxide	
		Carbon dioxide (CO2)	
Special protective equipmen for firefighters	t	: Wear self-contained breathing appar	atus and protective suit.
CTION 6. ACCIDENTAL REL	EAS	E MEASURES	
Personal precautions	:	Wear personal protective equipment. Immediately evacuate personnel to sa	afe areas.
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Handling:Wear personal protective equipment. Use only in well-ventilated areas. Keep container tightly closed. Do not smoke. Do not swallow. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.Advice on protection against fire and explosion:May form explosive peroxides. Keep away from fire, sparks and heated surfaces. Take precautionary measures against static discharges. Ensure all equipment is electrically grounded before beginn transfer operations. Use explosion-proof equipment. Keep product and empty container away from heat and sour		Revision Date 04/14/2014	Print Date 03/14/2
Ensure adequate ventilation. Remove all sources of ignition. Do not swallow. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Discharge into the environment must be avoided. Do not flush into surface water or sanitary sever system. Do not flush into surface water or sanitary sever system. Do not allow run-off from fire fighting to enter drains or wate courses. No sparking tools should be used. Methods for cleaning up Ventilate the area. No sparking tools should be used. Use explosion-proof equipment. Contaris spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) transfer to a container for disposal according to local / natio regulations (see section 13). CTION 7. HANDLING AND STORAGE Handling Verar personal protective equipment. Use only in well-ventilated areas. Keep container tightly closed. Do not smoke. Do not smake. Do not smoke. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Advice on protection against May form explosive peroxides. fire and explosion May form exp			
Prevent product from entering drains. Discharge into the environment must be avoided. Do not flush into surface water or sanitary sewer system. Do not allow run-off from fire fighting to enter drains or wate courses. Methods for cleaning up : Ventilate the area. No sparking tools should be used. Use explosion-proof equipment. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) transfer to a container for disposal according to local / natio regulations (see section 13). CTION 7. HANDLING AND STORAGE Handling Handling Handling Advice on protection against fire and explosion fire and explosion Keep away from fire, sparks and heated surfaces. Take precautionary measures against static discharges. Ensure all equipment is electrically grounded before beginn transfer operations. Use explosion-proof equipment.		Ensure adequate ventilation. Remove all sources of ignition. Do not swallow. Do not breathe vapours or spray mist.	
No sparking tools should be used. Use explosion-proof equipment. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) transfer to a container for disposal according to local / natio regulations (see section 13). CTION 7. HANDLING AND STORAGE Handling Handling Wear personal protective equipment. Use only in well-ventilated areas. Keep container tightly closed. Do not smoke. Do not swallow. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Advice on protection against fire and explosion : May form explosive peroxides. Keep away from fire, sparks and heated surfaces. Take precautionary measures against static discharges. Ensure all equipment is electrically grounded before beginn transfer operations. Use explosion-proof equipment. Keep product and empty container away from heat and sources and source and explosion and the source and explosion and the source and explosion	Environmental precautions	Prevent product from entering drains. Discharge into the environment must b Do not flush into surface water or sanit Do not allow run-off from fire fighting to	be avoided. ary sewer system.
Handling:Wear personal protective equipment. Use only in well-ventilated areas. Keep container tightly closed. Do not smoke. Do not swallow. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.Advice on protection against fire and explosion:May form explosive peroxides. Keep away from fire, sparks and heated surfaces. Take precautionary measures against static discharges. Ensure all equipment is electrically grounded before beginn transfer operations. Use explosion-proof equipment. Keep product and empty container away from heat and source	Methods for cleaning up	No sparking tools should be used. Use explosion-proof equipment. Contain spillage, soak up with non-com material, (e.g. sand, earth, diatomaceo transfer to a container for disposal acc	us earth, vermiculite) and
 Use only in well-ventilated areas. Keep container tightly closed. Do not smoke. Do not swallow. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Advice on protection against fire and explosion May form explosive peroxides. Keep away from fire, sparks and heated surfaces. Take precautionary measures against static discharges. Ensure all equipment is electrically grounded before beginn transfer operations. Use explosion-proof equipment. Keep product and empty container away from heat and sources 			
fire and explosion Keep away from fire, sparks and heated surfaces. Take precautionary measures against static discharges. Ensure all equipment is electrically grounded before beginn transfer operations. Use explosion-proof equipment. Keep product and empty container away from heat and sour		ORAGE	
of ignition. No sparking tools should be used. No smoking.	Handling	 Wear personal protective equipment. Use only in well-ventilated areas. Keep container tightly closed. Do not smoke. Do not swallow. Do not breathe vapours or spray mist. 	ing.
Page 5 / 15	Handling Handling Advice on protection against	 Wear personal protective equipment. Use only in well-ventilated areas. Keep container tightly closed. Do not smoke. Do not swallow. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and cloth May form explosive peroxides. Keep away from fire, sparks and heate Take precautionary measures against Ensure all equipment is electrically gro transfer operations. Use explosion-proof equipment. Keep product and empty container awa of ignition. No sparking tools should be used. 	ed surfaces. static discharges. unded before beginning

SAFETY DATA SHEET Honeywell Tetrahydrofuran (340, 341, 342, 343) 000000011440 Version 1.5 Revision Date 04/14/2014 Print Date 03/14/2016 Storage Requirements for storage Store in area designed for storage of flammable liquids. Protect areas and containers from physical damage. Keep containers tightly closed in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from heat and sources of ignition. Keep away from direct sunlight. Protect from exposure to air/oxygen (peroxide formation). Protect against light. Store away from incompatible substances. Container hazardous when empty. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location. Engineering measures Use with local exhaust ventilation. : Prevent vapour buildup by providing adequate ventilation during and after use. Eye protection : Do not wear contact lenses. 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 Solvent-resistant gloves : Gloves must be inspected prior to use. Replace when worn. Skin and body protection : Wear as appropriate: Solvent-resistant apron Flame retardant antistatic protective clothing If splashes are likely to occur, wear: Protective suit Page 6 / 15

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Respiratory protectio	equip For r self-c	oment. escue and r contained br	cient ventilation, w naintenance work eathing apparatus oved respiratory p	in stora	ge tanks use
Hygiene measures	Was produ Keep Rem Do n Do n Avoid This The http:/ ocum	h hands befo uct. o working clo ove and was ot swallow. ot breathe v d contact win material has current list c //www.aiha.co	othes separately. sh contaminated of apours or spray m th skin, eyes and of an established A of ERPG exposure	nediate clothing l nist. clothing. IHA ER limits ca delineDe	PG exposure limit. an be found at velopment/ERPG/D
Exposure Guideline Components	CAS-No.	Value	Control parameters	Upda te	Basis

Components	CAS-No.	Value	Control	Upda	Basis
			parameters	te	
Tetrahydrofuran	109-99-9	SKIN_DE S : Skin designati on:	Can be absorbed through the skin.	2008	ACGIH:US. ACGIH Threshold Limit Values
Totrobydrofuron	100.00.0	$T \Lambda / \Lambda$	(E0, nnm)	2000	

Tetrahydrofuran	109-99-9	TWA : time weighted	(50 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values	
		average				

Tetrahydrofuran	109-99-9	STEL :	(100 ppm)	2008	ACGIH:US. ACGIH
		Short			Threshold Limit
		term			Values
		exposure			
		limit			

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Tetrahydrofuran	109-99-9	REL : Recomm ended exposure limit (REL):	590 mg/m3 (200 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Tetrahydrofuran	109-99-9	STEL : Short term exposure limit	735 mg/m3 (250 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Tetrahydrofuran	109-99-9	PEL : Permissi ble exposure limit	590 mg/m3 (200 ppm)	02 2006	OSHA_TRANS:US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Tetrahydrofuran	109-99-9	STEL : Short term exposure limit	735 mg/m3 (250 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Tetrahydrofuran	109-99-9	TWA : time weighted average	590 mg/m3 (200 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
TION 9. PHYSICAL Physical state Color	: liq : cle	uid ear and colou			
Odor		ner-like			
pH		te: not applic	cable		
Melting point/freezing	point : -1	08.5 °C			
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Boiling point/boiling range	: 66 °C	
Flash point	: 7 °F (-14 °C) Method: closed cup	
Evaporation rate	: 14.5 Method: Compared to Butyl acetate.	
Lower explosion limit	: 2 %(V)	
Upper explosion limit	: 11.8 %(V)	
Vapor pressure	: 189 hPa at 20 °C(68 °F)	
Vapor density	: 2.5 Note: (Air = 1.0)	
Density	: 0.8892 g/cm3 at 20 °C	
Water solubility	: Note: completely soluble	
Ignition temperature	: 321 °C	
Molecular weight	: 72.11 g/mol	
CTION 10. STABILITY AND		
TION 10. STABILITY AND	REACTIVITY	
Chemical stability	: Stable under recommended storage c	anditiona

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Possibility of hazardous reactions	: Hazardous polymerisation may occ	ur.
Conditions to avoid	: Heat, flames and sparks. Keep away from direct sunlight. Protect from exposure to air/oxygen Protect against light.	(peroxide formation).
Incompatible materials to avoid	 Strong oxidizing agents Strong acids and strong bases May form explosive peroxides. May attack many plastics, rubbers a 	and coatings.
Hazardous decomposition products	 Peroxides In case of fire hazardous decompos produced such as: Carbon monoxide Carbon dioxide (CO2) 	ition products may be
TION 11. TOXICOLOGICAL	: LD50: 1,650 mg/kg	
	: LD50: 1,650 mg/kg	
Acute oral toxicity	 : LD50: 1,650 mg/kg Species: rat : LC50: 53.1 mg/l Exposure time: 4 h 	
Acute oral toxicity	 LD50: 1,650 mg/kg Species: rat LC50: 53.1 mg/l Exposure time: 4 h Species: rat LC50: 21000 ppm Exposure time: 3 h 	
Acute oral toxicity Acute inhalation toxicity	 : LD50: 1,650 mg/kg Species: rat : LC50: 53.1 mg/l Exposure time: 4 h Species: rat : LC50: 21000 ppm Exposure time: 3 h Species: rat : Species: rat 	
Acute oral toxicity Acute inhalation toxicity Skin irritation	 LD50: 1,650 mg/kg Species: rat LC50: 53.1 mg/l Exposure time: 4 h Species: rat LC50: 21000 ppm Exposure time: 3 h Species: rat Species: rabbit Result: Irritating to skin. Species: rabbit 	

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د ۲etrahydrofuran (340, 3	41, 342, 343)	
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Further information	: Note: Confirmed animal carcinogen humans.	with unknown relevance to
SECTION 12. ECOLOGICAL INFO	RMATION	
Ecotoxicity effects		
Toxicity to fish	: LC50: 2,160 mg/l Exposure time: 96 h Species: Pimephales promelas (fath	nead minnow)
	: LC50: 2,820 mg/l Species: Leuciscus idus (Golden or	fe)
Toxicity to bacteria	: LC50: > 580 mg/l Exposure time: 16 h Species: Bacteria	
Further information on ecolo	ду	
Additional ecological information	: Bioaccumulation is unlikely.	
SECTION 13. DISPOSAL CONSID	ERATIONS	
Disposal methods	: Observe all Federal, State, and Loc regulations.	al Environmental
SECTION 14. TRANSPORT INFOR	RMATION	
DOT UN/ID No. Proper shipping na Class Packing group Hazard Labels	: UN 2056 me : TETRAHYDROFURAN 3 II 3	
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ΙΑΤΑ	UN/ID No. Description of the Class Packaging group Hazard Labels Packing instruction (passenger aircrate (passenger aircrate)	on (cargo on aft) on	: 3 : II : 3	
IMDG	UN/ID No. Description of the Class Packaging group Hazard Labels EmS Number Marine pollutant	-	: 3 : II : 3	
TION 15.	REGULATORY INI	ORMATIO	ON	
Inventori	es			
	Substances	: On TS	SCA Inventory	
US. Toxic Control A Australia.	Substances ct Industrial (Notification and		SCA Inventory e inventory, or in compliance with	the inventory
US. Toxic Control A Australia. Chemical Assessm Canada. Environme Act (CEP	Substances ct Industrial (Notification and ent) Act	: On the		·
US. Toxic Control A Australia. Chemical Assessm Canada. Environme Act (CEP Substanc	e Substances ct Industrial (Notification and ent) Act Canadian ental Protection A). Domestic es List (DSL)	: On the	e inventory, or in compliance with	e Canadian DSL.
US. Toxic Control A Australia. Chemical Assessm Canada. Environme Act (CEP Substanc Japan. Ka Korea. To	e Substances ct Industrial (Notification and ent) Act Canadian ental Protection A). Domestic es List (DSL)	: On the	e inventory, or in compliance with mponents of this product are on th	e Canadian DSL. the inventory
US. Toxic Control A Australia. Chemical Assessm Canada. Environme Act (CEP Substanc Japan. Ka Korea. To Control L Philippine	E Substances ct Industrial (Notification and ent) Act Canadian ental Protection A). Domestic es List (DSL) ashin-Hou Law List pxic Chemical	: On the : All con : On the : On the	e inventory, or in compliance with mponents of this product are on th e inventory, or in compliance with	e Canadian DSL. the inventory the inventory

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and Nuclear Waste Control Act		
China. Inventory of Existing Chemical Substances	: On the inventory, or in compliance with	1 the inventory
New Zealand. Inventory of Chemicals (NZloC), as published by ERMA New Zealand	: On the inventory, or in compliance with	ו the inventory
National regulatory informa	ion	
US. EPA CERCLA Hazardous Substances (40 CFR 302)	: The following component(s) of this pro release reporting under 40 CFR 302 w Reportable Quantity (RQ):	
	Reportable quantity: 1000 lbs : Tetrahydrofuran 1	09-99-9
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 con components with known CAS numbers (De Minimis) reporting levels establish Section 313.	that exceed the threshold
SARA 311/312 Hazards	: Fire Hazard Acute Health Hazard Chronic Health Hazard Reactivity Hazard	
CERCLA Reportable Quantity	: 1000 lbs	
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California Prop. 65	California	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.		
Massachusetts RTK	: Tetrahyd	rofuran	109-99-9	
New Jersey RTK	: Tetrahyd	rofuran	109-99-9	
Pennsylvania RTK	: Tetrahyd	rofuran	109-99-9	
WHMIS Classification	D2B: Tox This proo of the CF	B2: Flammable liquid D2B: Toxic Material Causing Other Toxic Effects 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.		
TION 16. OTHER INFORM	ATION HMIS III	NFPA		
Health hazard	HMIS III : 2*	2		
Health hazard Flammability	HMIS III : 2* : 3			
Health hazard	HMIS III : 2*	2		
Health hazard Flammability Physical Hazard	HMIS III : 2* : 3	2 3		
Health hazard Flammability Physical Hazard Instability * - Chronic health hazard	HMIS III : 2* : 3 : 1 : vstems (e.g. HI	2 3 1 MIS® III, NFPA): This inform	ation is intended solely for the	
Health hazard Flammability Physical Hazard Instability * - Chronic health hazard Hazard rating and rating sy	HMIS III : 2* : 3 : 1 : vstems (e.g. HI	2 3 1 MIS® III, NFPA): This inform	ation is intended solely for the	
Health hazard Flammability Physical Hazard Instability * - Chronic health hazard Hazard rating and rating sy use of individuals trained in Further information The information provided in and belief at the date of its handling, use, processing,	HMIS III : 2* : 3 : 1 : vstems (e.g. HI the particular this Safety Da publication. Th storage, transp	2 3 1 MIS® III, NFPA): This inform system. ata Sheet is correct to the be e information given is desig portation, disposal and release	est of our knowledge, informati ned only as a guidance for sa se and is not to be considered	
Health hazard Flammability Physical Hazard Instability * - Chronic health hazard Hazard rating and rating sy use of individuals trained in Further information The information provided in and belief at the date of its handling, use, processing,	HMIS III : 2* : 3 : 1 : vstems (e.g. HI the particular this Safety Da publication. Th storage, transp	2 3 1 MIS® III, NFPA): This inform system. ata Sheet is correct to the be e information given is desig portation, disposal and release	est of our knowledge, information is intended solely for the est of our knowledge, information and only as a guidance for safuse and is not to be considered becific material designated and	

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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: 06/15/2012

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group