

A Cap

BR641-2

Version 1.5 Revision Date 08/16/2018 Print Date 10/17/2019

SECTION 1. IDENTIFICATION

Product name : A Cap

Number : 000000011296

Product Use Description : Laboratory chemicals, Capping Reagent for DNA/RNA

Synthesis

Manufacturer or supplier's

details

Honeywell International Inc. 1953 South Harvey Street

Muskegon, MI 49442

For more information call : 1-800-368-0050

+1-231-726-3171

(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 : liquid, clear

Color : colourless

Odor : ether-like

Page 1 / 20



A Cap

BR641-2

Version 1.5 Revision Date 08/16/2018 Print Date 10/17/2019

Classification of the substance or mixture

Classification of the substance : Flammable liquids, Category 2

or mixture

Acute toxicity, Category 4, Oral Skin corrosion, Category 1B Serious eye damage, Category 1 Carcinogenicity, Category 2

Specific target organ toxicity - single exposure, Category 3,

Respiratory system

GHS Label elements, including precautionary statements

Symbol(s) :









Signal word : Danger

Hazard statements : Highly flammable liquid and vapour.

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause respiratory irritation. Suspected of causing cancer.

Precautionary statements : Prevention:

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.



A Cap

BR641-2

Version 1.5 Revision Date 08/16/2018 Print Date 10/17/2019

Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response:

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. 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

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.

Immediately call a POISON CENTER/doctor.

Wash contaminated clothing before reuse.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Carcinogenicity

ACGIH: Tetrahydrofuran 109-99-9

A3: Confirmed animal carcinogen

Pyridine 110-86-1

A3: Confirmed animal carcinogen

Page 3 / 20



A Cap

BR641-2

Version 1.5 Revision Date 08/16/2018 Print Date 10/17/2019

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Chemical name	CAS-No.	Concentration
Tetrahydrofuran	109-99-9	80.00 %
Acetic anhydride	108-24-7	10.00 %
Pyridine	110-86-1	10.00 %

SECTION 4. FIRST AID MEASURES

Inhalation : Call a physician immediately. Remove to fresh air. If not

breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is

present.

Skin contact : Wash off immediately with plenty of water for at least 15

minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Call a physician

immediately.

Eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Call a physician immediately.

Ingestion : Do not induce vomiting without medical advice. Never give

anything by mouth to an unconscious person. Call a physician

immediately.

Notes to physician

Indication of immediate : Treat symptomatically.

Page 4 / 20



A Cap

BR641-2

Version 1.5 Revision Date 08/16/2018 Print Date 10/17/2019

medical attention and special treatment needed, if necessary

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Cool closed containers exposed to fire with water spray.

Unsuitable extinguishing

media

: Do not use a solid water stream as it may scatter and spread

fire.

Specific hazards during

firefighting

: Extremely flammable.

Vapours may form explosive mixtures with air.

Vapours are heavier than air and may spread along floors. Vapors may travel to areas away from work site before

igniting/flashing back to vapor source.

May form explosive peroxides. Reacts violently with water.

In case of fire hazardous decomposition products may be

produced such as:

Carbon dioxide (CO2), carbon monoxide (CO), oxides of

nitrogen (NOx), dense black smoke. Hydrogen cyanide (hydrocyanic acid)

Ammonia

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus and protective suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Wear personal protective equipment.

Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Ensure adequate ventilation. Remove all sources of ignition.

Do not swallow.

Page 5 / 20



A Cap

BR641-2

Version 1.5 Revision Date 08/16/2018 Print Date 10/17/2019

Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on 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 sewer system. Do not allow run-off from fire fighting to enter drains or water

courses.

Methods and materials for containment and cleaning

up

Ventilate the area.

No sparking tools should be used. Use explosion-proof equipment.

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations

(see section 13).

SECTION 7. HANDLING AND STORAGE

Handling

Precautions for safe

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. Do not get in eyes, on skin, or on clothing.

Advice on protection against :

fire and explosion

Keep away from fire, sparks and heated surfaces.

Take precautionary measures against static discharges.

Ensure all equipment is electrically grounded before beginning

transfer operations.

Use explosion-proof equipment.

Keep product and empty container away from heat and sources

of ignition.

No sparking tools should be used.

No smoking.



A Cap

BR641-2

Version 1.5 Revision Date 08/16/2018 Print Date 10/17/2019

Storage

Conditions for safe storage, :

including any incompatibilities

Store in area designed for storage of flammable liquids. Protect

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).

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 7 / 20



A Cap

BR641-2

Version 1.5 Revision Date 08/16/2018 Print Date 10/17/2019

Respiratory protection : In case of insufficient ventilation wear suitable respiratory

equipment.

For rescue and maintenance work in storage tanks use

self-contained breathing apparatus.

Use NIOSH approved respiratory protection.

Hygiene measures : When using, do not eat, drink or smoke.

Wash hands before breaks and immediately after handling the

product.

Keep working clothes separately.

Remove and wash contaminated clothing before re-use.

Do not swallow.

Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing.

This material has an established AIHA ERPG exposure limit. The current list of ERPG exposure limits can be found at http://www.aiha.org/insideaiha/GuidelineDevelopment/ERPG/D

ocuments/2011erpgweelhandbook_table-only.pdf.

Exposure Guidelines

Exposure Guidelir	162				
Components	CAS-No.	Value	Control parameters	Upda te	Basis
Tetrahydrofuran	109-99-9	SKIN_DE S : Skin designati on:	Can be absorbed through the skin.	2008	ACGIH:US. ACGIH Threshold Limit Values
		1	<u> </u>	1	1
Tetrahydrofuran	109-99-9	TWA: Time weighted average	(50 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
		1	<u> </u>	1	1
Tetrahydrofuran	109-99-9	STEL: Short term exposure limit	(100 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values



A Cap

BR641-2

Version 1.5 Revision Date 08/16/2018 Print Date 10/17/2019

Tetrahydrofuran Tetrahydrofuran	109-99-9	REL: Recomm ended exposure limit (REL):	590 mg/m3 (200 ppm) 735 mg/m3 (250 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards NIOSH/GUIDE:US. NIOSH: Pocket
		term exposure limit	(230 ppiii)		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)
Acetic anhydride	108-24-7	TWA : Time weighted average	(1 ppm)	12 2010	ACGIH:US. ACGIH Threshold Limit Values
Acetic anhydride	108-24-7	STEL: Short term exposure limit	(3 ppm)	12 2010	ACGIH:US. ACGIH Threshold Limit Values



A Cap

BR641-2

Version 1.5 Revision Date 08/16/2018 Print Date 10/17/2019

108-24-7	Ceil_Tim e: Ceiling Limit Value and Time Period (if specified) :	20 mg/m3 (5 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
108-24-7	PEL: Permissi ble exposure limit	20 mg/m3 (5 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
108-24-7	Ceiling : Ceiling Limit Value:	20 mg/m3 (5 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
110-86-1	TWA: Time weighted average	(1 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
110-86-1	REL: Recomm ended exposure limit (REL):	15 mg/m3 (5 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
110-86-1	PEL: Permissi ble exposure limit	15 mg/m3 (5 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
	108-24-7	e : Ceiling Limit Value and Time Period (if specified): 108-24-7 PEL: Permissi ble exposure limit 108-24-7 Ceiling: Ceiling Limit Value: 110-86-1 TWA: Time weighted average 110-86-1 REL: Recomm ended exposure limit (REL): 110-86-1 PEL: Permissi ble exposure	e: Ceiling Limit Value and Time Period (if specified): 108-24-7 PEL: 20 mg/m3 (5 ppm) 108-24-7 Ceiling: 20 mg/m3 (5 ppm) 108-24-7 Ceiling: Ceiling (5 ppm) 108-24-7 Reiling: 20 mg/m3 (5 ppm) 110-86-1 TWA: Time weighted average 110-86-1 REL: 15 mg/m3 (5 ppm) 110-86-1 PEL: 15 mg/m3 (5 ppm) 110-86-1 PEL: 15 mg/m3 (5 ppm) 110-86-1 PEL: 15 mg/m3 (5 ppm)	e : Ceiling (5 ppm)



A Cap

BR641-2

Version 1.5 Revision Date 08/16/2018 Print Date 10/17/2019

Pyridine	110-86-1	TWA: Time weighted	15 mg/m3 (5 ppm)	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
		average		,

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid, clear

Color : colourless

Odor : ether-like

Odor threshold : Note: no data available

pH : Note: not determined

Melting point/range : -108.5 °C

Note: The physical data is that of the main component.

Boiling point/boiling range : 66 °C

Note: The physical data is that of the main component.

Flash point : 5 °F (-15 °C)

Method: closed cup

Evaporation rate : Note: no data available

Lower explosion limit : 2 %(V)

Upper explosion limit : 11.8 %(V)

Vapor pressure : 189 hPa

Page 11 / 20



A Cap

BR641-2

Version 1.5 Revision Date 08/16/2018 Print Date 10/17/2019

at 20 °C(68 °F)Note: The physical data is that of the main

component.

Vapor density : Note: no data available

Density : 0.888 g/cm3 at 20 °C

Note: The physical data is that of the main component.

Water solubility : Note: completely soluble

Partition coefficient:

n-octanol/water

: Note: no data available

Ignition temperature : 321 °C

Method: The physical data is that of the main component.

Decomposition temperature : Note: no data available

Viscosity, dynamic : Note: no data available

Viscosity, kinematic : Note: no data available

SECTION 10. STABILITY AND REACTIVITY

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Hazardous polymerisation does not occur.

Conditions to avoid : Heat, flames and sparks.

Keep away from direct sunlight.

Protect from exposure to air/oxygen (peroxide formation).

Protect against light.

Page 12 / 20



A Cap

BR641-2

Version 1.5 Revision Date 08/16/2018 Print Date 10/17/2019

Protect against water.

Incompatible materials : Strong oxidizing agents

Strong acids and strong bases May form explosive peroxides.

May attack many plastics, rubbers and coatings.

Water Alcohols Boric Acid Chloroformates Amines

Acid chlorides Fluorine

Hazardous decomposition

products

: Peroxides

In case of fire hazardous decomposition products may be

produced such as:

Carbon dioxide (CO2), carbon monoxide (CO), oxides of

nitrogen (NOx), dense black smoke. Hydrogen cyanide (hydrocyanic acid)

Ammonia

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : Acute toxicity estimate: 1,349 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 40 mg/l , vapour

Exposure time: 4 h

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Page 13 / 20



A Cap

BR641-2

Version 1.5 Revision Date 08/16/2018 Print Date 10/17/2019

Skin irritation

Tetrahydrofuran : Species: Rabbit

Result: Irritating to skin.

Acetic anhydride : Species: human

Result: Corrosive

Eye irritation

Tetrahydrofuran : Species: Rabbit

Result: Irritating to eyes.

Acetic anhydride : Species: human

Classification: Corrosive

Pyridine : Species: Rabbit

Result: Irritating to eyes.

Repeated dose toxicity

Acetic anhydride : Species: Rat

Application Route: Inhalation

Dose: Intermittent – 40 ppm or 167.2 mg/m3

Exposure time: (2 Weeks) Respiratory disorders

Lachrymation
Shortness of breath

Fatality

Species: Rat

Application Route: Inhalation Exposure time: (13 Weeks)

NOEL: 1 ppm Local effects

Respiratory irritation

Species: Rat

Application Route: Inhalation Exposure time: (13 Weeks)

Systemic toxicity

No systemic toxicity was observed at 20 ppm (the highest level

tested).

Page 14 / 20



A Cap

BR641-2

Version 1.5 Revision Date 08/16/2018 Print Date 10/17/2019

Genotoxicity in vitro

Acetic anhydride : Test Method: Ames test

Result: negative

Pyridine : Test Method: Ames test

Result: negative

: Test Method: Chromosome aberration test in vitro

Cell type: Chinese Hamster Ovary Cells

Result: negative

Test Method: Cell Transformation Test

Result: negative

Genotoxicity in vivo

Acetic anhydride : Species: Rat

Cell type: Micronucleus Application Route: Inhalation

Result: negative

Further information

Tetrahydrofuran : Note:

Confirmed animal carcinogen with unknown relevance to

humans.

Pyridine : Note:

Confirmed animal carcinogen with unknown relevance to

humans.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity to fish

Page 15 / 20



A Cap

BR641-2

Version 1.5 Revision Date 08/16/2018 Print Date 10/17/2019

Tetrahydrofuran : LC50: 2,160 mg/l

Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

LC50: 2,820 mg/l

Species: Leuciscus idus (Golden orfe)

Acetic anhydride : LC50: 265 mg/l

Exposure time: 48 h

Species: Leuciscus idus (Golden orfe)

Pyridine : flow-through test

LC50: 99 mg/l Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates

Acetic anhydride : LC50: 55 mg/l

Exposure time: 24 h

Species: Daphnia magna (Water flea)

Pyridine : EC50: 320 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202

Toxicity to bacteria

Tetrahydrofuran : LC50: > 580 mg/l

Exposure time: 16 h Species: Bacteria

Further information on ecology

Additional ecological

information

: Harmful to aquatic organisms.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental

Page 16 / 20



A Cap

BR641-2

Version 1.5 Revision Date 08/16/2018 Print Date 10/17/2019

regulations.

SECTION 14. TRANSPORT INFORMATION

DOT UN/ID No. : UN 2924

Proper shipping name : FLAMMABLE LIQUID, CORROSIVE, N.O.S.

(Tetrahydrofuran, Acetic anhydride, Pyridine)

Class 3
Packing group II
Hazard Labels 3 (8)

IATA UN/ID No. : UN 2924

Description of the goods : FLAMMABLE LIQUID, CORROSIVE, N.O.S.

(Tetrahydrofuran, Acetic anhydride, Pyridine)

Class : 3
Packaging group : II
Hazard Labels : 3 (8)
Packing instruction (cargo : 363

aircraft)

Packing instruction : 352

(passenger aircraft)

Packing instruction : Y340

(passenger aircraft)

IMDG UN/ID No. : UN 2924

Description of the goods : FLAMMABLE LIQUID, CORROSIVE, N.O.S.

(TETRAHYDROFURAN, ACETIC ANHYDRIDE,

PYRIDINE)

Class : 3
Packaging group : II
Hazard Labels : 3 (8)
EmS Number : F-E, S-C
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

Inventories

Page 17 / 20



A Cap

BR641-2

Version 1.5 Revision Date 08/16/2018 Print Date 10/17/2019

US. Toxic Substances

Control Act

: On TSCA Inventory

Australia. Industrial

Chemical (Notification and

Assessment) Act

: 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. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals

Inventory (KECI)

: On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control

Act

: On the inventory, or in compliance with the inventory

China. Inventory of Existing

Chemical Substances

: On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New

Zealand

: On the inventory, or in compliance with the inventory

TSCA 12B : US. Toxic Substances Control Act (TSCA) Section 12(b) Export

Notification (40 CFR 707, Subpt D)

Tetrahydrofuran 109-99-9

National regulatory information

US. Drug Enforcement Administration (DEA) Listed Precursor and Essential Chemicals (21 CFR 1310)

: On the United States Drug Enforcement Authority (DEA) List of

Precursors and Essential Chemicals

Page 18 / 20



A Cap

BR641-2

Version 1.5 Revision Date 08/16/2018 Print Date 10/17/2019

US. EPA CERCLA

Hazardous Substances (40

CFR 302)

: Acetic anhydride 108-24-7

The following component(s) of this product is/are subject to release reporting under 40 CFR 302 when release exceeds the

Reportable Quantity (RQ):

Reportable quantity: 1000 lbs

Tetrahydrofuran 109-99-9
Pyridine 110-86-1

:

Reportable quantity: 5000 lbs

: Acetic anhydride 108-24-7

SARA 302 Components : 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: : Pyridine 110-86-1

SARA 311/312 Hazards : Fire Hazard

Acute Health Hazard Chronic Health Hazard Reactivity Hazard

CERCLA Reportable

Quantity

: 1250 lbs

California Prop. 65

WARNING: This product can expose you to chemicals, listed below, known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Pyridine 110-86-1

Massachusetts RTK : Acetic anhydride 108-24-7

: Tetrahydrofuran 109-99-9 : Pyridine 110-86-1

New Jersey RTK : Acetic anhydride 108-24-7

Page 19 / 20



A Cap

BR641-2

Version 1.5 Revision Date 08/16/2018 Print Date 10/17/2019

Tetrahydrofuran

: Pyridine 110-86-1

Pennsylvania RTK Acetic anhydride 108-24-7 109-99-9

: Tetrahvdrofuran : Pyridine

110-86-1

109-99-9

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 3*	3
Flammability	: 3	3
Physical Hazard	: 1	
Instability	:	1

* - Chronic health hazard

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: 09/28/2017

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group