

**HYDRANAL™-Coulomat AG****34836-1L-US**

Version 1.3

Revision Date 11/16/2022

Print Date 05/12/2023

**SECTION 1. IDENTIFICATION**

Product name : HYDRANAL™-Coulomat AG

Number : 000000020624

Product Use Description : Laboratory chemicals  
Scientific research and development

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

Color : light yellow

Odor : aromatic

**Classification of the substance or mixture**

Classification of the substance or mixture : Flammable liquids, Category 2  
Acute toxicity, Category 4, Inhalation  
Serious eye damage, Category 1  
Reproductive toxicity, Category 1B  
Specific target organ toxicity - single exposure, Category 1,  
Eyes, Nervous system, Systemic toxicity

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Specific target organ toxicity - repeated exposure, Category 2,  
Liver, Blood, Kidney

**GHS Label elements, including precautionary statements**

Symbol(s)

:



Signal word

: Danger

Hazard statements

: Highly flammable liquid and vapour.  
Causes serious eye damage.  
Harmful if inhaled.  
May damage fertility or the unborn child.  
Causes damage to organs.  
May cause damage to organs through prolonged or repeated exposure.

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.  
Do not breathe 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/protective clothing/eye protection/face protection.

**Response:**

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.

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Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER/ doctor.  
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

**Storage:**

Store in a well-ventilated place. Keep cool.  
Store locked up.

**Disposal:**

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

**Carcinogenicity**

IARC: Diethanolamine 111-42-2  
Group 2B: Possibly carcinogenic to humans

ACGIH: Diethanolamine 111-42-2  
A3: Confirmed animal carcinogen

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature : Mixture

Chemical name	CAS-No.	Concentration
Methanol	67-56-1	>=65.00 - <75.00 %
Diethanolamine	111-42-2	>=10.00 - <20.00 %
Sulphur dioxide	7446-09-5	>=5.00 - <10.00 %
Imidazole	288-32-4	>=5.00 - <10.00 %

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1H-Imidazole monohydriodide

68007-08-9

&gt;=5.00 - &lt;10.00 %

**SECTION 4. FIRST AID MEASURES**

- General advice : First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.
- Inhalation : Remove to fresh air. Keep patient warm and at rest. Call a physician immediately.
- Skin contact : Wash off immediately with plenty of water. If skin irritation persists, call a physician.
- Eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Protect unharmed eye.
- Ingestion : When swallowed, allow water to be drunk. Do NOT induce vomiting. Call a physician immediately.

**Notes to physician**

- Most important symptoms/effects, acute and delayed : No information available.
- Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Water spray  
Foam  
Carbon dioxide (CO2)  
Dry powder
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.
- Specific hazards during : Flammable.

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## firefighting

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.  
In case of fire hazardous decomposition products may be produced such as:  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides  
Hydrogen halides

## Special protective equipment for firefighters

: Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

## Further information

: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

## Personal precautions, protective equipment and emergency procedures

: Evacuate personnel to safe areas.  
Wear personal protective equipment. Unprotected persons must be kept away.  
Ensure adequate ventilation.  
Remove all sources of ignition.

## Environmental precautions

: Should not be released into the environment.

## Methods and materials for containment and 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) and transfer to a container for disposal according to local / national regulations (see section 13).

**SECTION 7. HANDLING AND STORAGE****Handling**

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Precautions for safe handling : Wear personal protective equipment.  
Use only in well-ventilated areas.

Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking.  
Take measures to prevent the build up of electrostatic charge.  
The heavy vapours can overcome a considerable distance up to the source of ignition.  
Vapours may form explosive mixtures with air.

**Storage**

Conditions for safe storage, including any incompatibilities : Keep only in the original container, tightly closed, in a well ventilated place.  
Store at room temperature.  
(Ambient temperature: > 0 < 35°C)  
Protect from atmospheric moisture and water.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.  
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.  
Avoid exposure - obtain special instructions before use.

Engineering measures : Use with local exhaust ventilation.  
Prevent vapour buildup by providing adequate ventilation during and after use.

Eye protection : Safety goggles

Hand protection : Impervious butyl rubber gloves  
Gloves must be inspected prior to use.  
Replace when worn.

Skin and body protection : Protective suit

Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene measures : Take off all contaminated clothing immediately.  
Remove and wash contaminated clothing before re-use.

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When using do not eat or drink.  
Wash hands before breaks and at the end of workday.

## Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Methanol	67-56-1	TWA : Time weighted average	(200 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
Methanol	67-56-1	SKIN_DES : Skin designation:	Danger of cutaneous absorption	01 2020	ACGIH:US. ACGIH Threshold Limit Values, as amended
Methanol	67-56-1	STEL : Short term exposure limit	(250 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
Methanol	67-56-1	SKIN_DES : Skin designation:	Can be absorbed through the skin.	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Methanol	67-56-1	REL : Recommended exposure limit (REL):	260 mg/m3 (200 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Methanol	67-56-1	STEL : Short term exposure limit	325 mg/m3 (250 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended

## SAFETY DATA SHEET



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Methanol	67-56-1	PEL : Permissible exposure limit	260 mg/m3 (200 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
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Methanol	67-56-1	TWA : Time weighted average	260 mg/m3 (200 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
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Methanol	67-56-1	STEL : Short term exposure limit	325 mg/m3 (250 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
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Methanol	67-56-1	SKIN_FINAL : Skin designati on (Final Rule Limit applies):	Can be absorbed through the skin.	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
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Diethanolamine	111-42-2	TWA : Time weighted average	1 mg/m3	2009	ACGIH:US. ACGIH Threshold Limit Values, as amended
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Further information	:	Form of exposure : Inhalable fraction and vapor.			
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Diethanolamine	111-42-2	SKIN_DES : Skin designati on:	Can be absorbed through the skin.	2009	ACGIH:US. ACGIH Threshold Limit Values, as amended
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Further information	:	Form of exposure : Inhalable fraction and vapor.			
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Diethanolamine	111-42-2	REL : Recomm ended exposure limit (REL):	15 mg/m3 (3 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Diethanolamine	111-42-2	TWA : Time weighted average	15 mg/m3 (3 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Sulphur dioxide	7446-09-5	STEL : Short term exposure limit	(0.25 ppm)	2009	ACGIH:US. ACGIH Threshold Limit Values, as amended
Sulphur dioxide	7446-09-5	REL : Recomm ended exposure limit (REL):	5 mg/m3 (2 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Sulphur dioxide	7446-09-5	STEL : Short term exposure limit	13 mg/m3 (5 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Sulphur dioxide	7446-09-5	PEL : Permissi ble exposure limit	13 mg/m3 (5 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended

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Sulphur dioxide	7446-09-5	TWA : Time weighted average	5 mg/m3 (2 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
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Sulphur dioxide	7446-09-5	STEL : Short term exposure limit	13 mg/m3 (5 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state	: liquid
Color	: light yellow
Odor	: aromatic
Odor threshold	: Note: No data available
pH	: 5.0 - 6.0 at , 20 °C
Melting point/range	: Note: No data available
Boiling point/boiling range	: 63 °C at 1,013 hPa
Flash point	: 57 °F (14 °C)
Evaporation rate	: Note: No data available
Flammability	: Not applicable
Lower explosion limit	: Note: No data available
Upper explosion limit	: Note: No data available

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Vapor pressure	: Note: No data available
Vapor density	: Note: No data available
Density	: 0.930 g/cm <sup>3</sup> at 20 °C
Water solubility	: Note: completely miscible
Partition coefficient: n-octanol/water	: Note: No data available
Ignition temperature	: Note: No data available
Decomposition temperature	: Note: No decomposition if used as directed.
Viscosity, dynamic	: Note: No data available
Viscosity, kinematic	: Note: No data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Vapours may form explosive mixture with air. Hazardous polymerisation does not occur.
Conditions to avoid	: Protect from atmospheric moisture and water. Heat, flames and sparks.

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Incompatible materials	: Zinc Oxidizing agents Acids Alkali metals Acid chlorides Acid anhydrides Reducing agents
Hazardous decomposition products	: In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Carbon dioxide (CO <sub>2</sub> ) Nitrogen oxides (NO <sub>x</sub> ) Sulphur oxides Hydrogen halides

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	: LD50: > 2,000 mg/kg Species: Rat Method: OECD Test Guideline 401
Acute inhalation toxicity Methanol	: LC50: 64000 ppm Exposure time: 4 h Species: Rat
Acute dermal toxicity Methanol	: LD50: 15,800 mg/kg Species: Rabbit
Diethanolamine	: LD50: 12.2 g/kg Species: Rabbit
1H-Imidazole monohydriodide	: LD50: > 2,000 mg/kg Species: Rat Method: OECD Test Guideline 402

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Skin irritation	: Species: Rabbit Result: No skin irritation Method: OECD Test Guideline 404
Eye irritation	: Species: Rabbit Result: Risk of serious damage to eyes. Method: OECD Test Guideline 405
Sensitisation	: Note: No data available
Repeated dose toxicity	: Note: No data available
Genotoxicity in vitro	: Note: No data available
Genotoxicity in vivo Methanol	: Note: In vivo tests did not show mutagenic effects
Diethanolamine	: Test Method: Chromosome aberration test Species: Mouse, male and female Application Route: Dermal Method: OECD Test Guideline 474 Result: negative
Imidazole	: Test Method: Micronucleus test Species: Mouse, male and female Cell type: Bone marrow Application Route: Oral Method: OECD Test Guideline 474 Result: negative
Teratogenicity Imidazole	: Species: RatApplication Route: Oral  No observed adverse effect level: 60 mg/kg body weight No observed adverse effect level: 60 mg/kg body weight Method: OECD Test Guideline 414 Result: Embryotoxic effects and adverse effects on the

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offspring were detected.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity effects**

Toxicity to fish	: semi-static test LC50: > 1,000 mg/l Exposure time: 96 h Species: Leuciscus idus (Golden orfe) Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	
Methanol	: LC50: 10,000 mg/l Exposure time: 24 h Species: Daphnia (water flea)
Diethanolamine	: EC50: 55 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)  EC50: 30.1 - 89.9 mg/l Exposure time: 48 h Species: Ceriodaphnia dubia (water flea)
Imidazole	: static test EC50: 341.5 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Method: Directive 67/548/EEC, Annex V, C.2.
1H-Imidazole monohydriodide	: EC50: 1.4 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202  EC0: 0.46 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202

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Toxicity to algae  
Diethanolamine

: static test  
EC50: 9.5 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (algae)

Imidazole

: static test  
EC50: 133 mg/l  
Exposure time: 72 h  
Species: Desmodesmus subspicatus (green algae)  
Method: DIN 38412

1H-Imidazole  
monohydriodide

: Biomass  
EC50: 8.3 mg/l  
Exposure time: 72 h  
Species: scenedesmus subspicatus  
Method: OECD Test Guideline 201

Growth rate  
EC50: 34 mg/l  
Exposure time: 72 h  
Species: scenedesmus subspicatus  
Method: OECD Test Guideline 201

Biomass  
NOEC: 1 mg/l  
Exposure time: 72 h  
Species: scenedesmus subspicatus  
Method: OECD Test Guideline 201

Biomass  
NOEC: 1 mg/l  
Exposure time: 72 h  
Species: scenedesmus subspicatus  
Method: OECD Test Guideline 201

Toxicity to bacteria

: Growth inhibition  
> 125 mg/l  
Species: Pseudomonas putida

**Elimination information (persistence and degradability)**

Biodegradability

: Result: Readily biodegradable  
Value: 71 %

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Method: OECD 301 D

**Further information on ecology**

Biochemical Oxygen Demand (BOD)

Diethanolamine : Value: 885 mg/g

Chemical Oxygen Demand (COD)

Diethanolamine : Value: 1,352 mg/g

**Ecotoxicology Assessment**

Results of PBT assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Additional ecological information : Do not flush into surface water or sanitary sewer system.

**SECTION 13. DISPOSAL CONSIDERATIONS**

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

**SECTION 14. TRANSPORT INFORMATION**

<b>DOT</b>	UN/ID No.	: UN 1230
	Proper shipping name	: METHANOL SOLUTION
	Class	: 3
	Packing group	: II
	Hazard Labels	: 3

<b>IATA</b>	UN/ID No.	: UN 1230
	Description of the goods	: METHANOL SOLUTION
	Class	: 3
	Packaging group	: II
	Hazard Labels	: 3 (6.1)
	Packing instruction (cargo aircraft)	: 364
	Packing instruction	: 352



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(passenger aircraft)  
Packing instruction : Y341  
(passenger aircraft)

**IMDG** UN/ID No. : UN 1230  
Description of the goods : METHANOL SOLUTION  
Class : 3  
Packaging group : II  
Hazard Labels : 3 (6.1)  
EmS Number : F-E, S-D  
Marine pollutant : no  
IMDG Code segregation group according chapter 3.1.4.4 : NONE,  
IMDG Code segregation group according chapter 3.1.4.4 : NONE,

**SECTION 15. REGULATORY INFORMATION****Inventories**

US. Toxic Substances Control Act : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

Australia. Inventory of Industrial Chemicals (AIIIC), as amended : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC) : On the inventory, or in compliance with the inventory

Note : Note: Because of the potential specific inventory listing of components of this product line, further, more detailed information can be requested from [SafetyDataSheet@Honeywell.com](mailto:SafetyDataSheet@Honeywell.com).

Taiwan Chemical Substance Inventory (TCSI) : Not in compliance with the inventory

**National regulatory information**

TSCA : This material must be used in compliance with the TSCA Research and Development Exemption requirements (40 CFR 720.36).

:

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US. EPA CERCLA Hazardous Substances (40 CFR 302) : 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: 100 lbs  
 : Diethanolamine 111-42-2  
 :  
 Reportable quantity: 5000 lbs  
 : Methanol 67-56-1  
 :  
 Reportable quantity: 500 lbs  
 : Sulphur dioxide 7446-09-5

**SARA 302 Components** : The following components are subject to reporting levels established by SARA Title III, Section 302:  
 : Sulphur dioxide 7446-09-5

**SARA 313 Components** : The following components are subject to reporting levels established by SARA Title III, Section 313:  
 : Methanol 67-56-1  
 : Diethanolamine 111-42-2

**SARA 311/312 Hazards** : Fire Hazard  
 Acute Health Hazard  
 Chronic Health Hazard

**CERCLA Reportable Quantity** : 1000 lbs

**California Prop. 65** :  **WARNING:** This product can expose you to chemicals, listed below, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Diethanolamine 111-42-2  
 Methanol 67-56-1  
 Sulphur dioxide 7446-09-5

**Massachusetts RTK** : Methanol 67-56-1  
 : Sulphur dioxide 7446-09-5  
 : Diethanolamine 111-42-2

**New Jersey RTK** : Methanol 67-56-1  
 : Diethanolamine 111-42-2

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	: Sulphur dioxide	7446-09-5
<b>Pennsylvania RTK</b>	: Methanol	67-56-1
	: Sulphur dioxide	7446-09-5
	: Diethanolamine	111-42-2

**SECTION 16. OTHER INFORMATION**

	<b>HMIS III</b>	<b>NFPA</b>
Health hazard	: 3*	3
Flammability	: 3	3
Physical Hazard	: 0	
Instability	:	0

\* - 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: 03/04/2020

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group