

**HYDRANAL™ Solvent E****34730-500ML**

Version 1.2

Revision Date 02/26/2020

Print Date 08/03/2021

**SECTION 1. IDENTIFICATION**

Product name : HYDRANAL™ Solvent E

Number : 000000020506

Product Use Description : Laboratory chemicals

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 : no data available

Odor : aromatic

**Classification of the substance or mixture**

Classification of the substance or mixture : Flammable liquids, Category 2  
Acute toxicity, Category 4, Inhalation  
Skin corrosion, Category 1B  
Serious eye damage, Category 1  
Reproductive toxicity, Category 1B  
Specific target organ toxicity - repeated exposure, Category 2,  
Liver, Blood, Kidney

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**GHS Label elements, including precautionary statements**

Symbol(s)

:



Signal word

: Danger

Hazard statements

: Highly flammable liquid and vapour.  
Causes severe skin burns and eye damage.  
Harmful if inhaled.  
May damage fertility or the unborn child.  
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.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.**Response:**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 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.

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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 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: | Ethanol                                   | 64-17-5  |
|        | A3: Confirmed animal carcinogen           |          |
|        | Diethanolamine                            | 111-42-2 |
|        | A3: Confirmed animal carcinogen           |          |

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

Chemical nature : Mixture

| Chemical name   | CAS-No.   | Concentration      |
|-----------------|-----------|--------------------|
| Ethanol         | 64-17-5   | >=70.00 - <90.00 % |
| Diethanolamine  | 111-42-2  | >=10.00 - <20.00 % |
| Imidazole       | 288-32-4  | >=5.00 - <10.00 %  |
| Sulphur dioxide | 7446-09-5 | >=5.00 - <10.00 %  |

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**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 (CO<sub>2</sub>)  
Dry powder
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides
- Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

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for firefighters

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.  
Remove all sources of ignition.  
Ensure adequate ventilation.

Environmental precautions : Should not be released into the environment.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material.  
Pick for disposal in tightly closed containers

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

Precautions for safe handling : Avoid exposure - obtain special instructions before use.  
Exhaust ventilation at the object is necessary.

Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking.  
The heavy vapours can overcome a considerable distance up to the source of ignition.  
Take measures to prevent the build up of electrostatic charge.  
Normal measures for preventive fire protection.

**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.

Advice on common storage : Oxidizing agents

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**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.  
Do not breathe vapour.
- Engineering measures : Use with local exhaust ventilation.
- 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.  
Wash hands before breaks and at the end of workday.  
When using do not eat or drink.

**Exposure Guidelines**

| Components | CAS-No. | Value                                      | Control parameters         | Update | Basis   |
|------------|---------|--|----------------------------|--------|---|
| Ethanol    | 64-17-5 | STEL :<br>Short term exposure limit        | (1,000 ppm)                | 2009   | ACGIH:US. ACGIH Threshold Limit Values, as amended                  |
| Ethanol    | 64-17-5 | REL :<br>Recommended exposure limit (REL): | 1,900 mg/m3<br>(1,000 ppm) | 2005   | NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended |

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|         |         |                                     |                            |            |  |
|---------|---------|-------------------------------------|----------------------------|------------|--|
| Ethanol | 64-17-5 | PEL :<br>Permissible exposure limit | 1,900 mg/m3<br>(1,000 ppm) | 02<br>2006 | OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended |
|---------|---------|-------------------------------------|----------------------------|------------|--|

|         |         |                                |                            |      |   |
|---------|---------|--------------------------------|----------------------------|------|---|
| Ethanol | 64-17-5 | TWA :<br>Time weighted average | 1,900 mg/m3<br>(1,000 ppm) | 1989 | Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended |
|---------|---------|--------------------------------|----------------------------|------|---|

|                |          |                                |         |      |  |
|----------------|----------|--------------------------------|---------|------|--|
| Diethanolamine | 111-42-2 | TWA :<br>Time weighted average | 1 mg/m3 | 2009 | ACGIH:US. ACGIH Threshold Limit Values, as amended |
|----------------|----------|--------------------------------|---------|------|--|

|                     |   |  |  |  |  |
|---------------------|---|--|--|--|--|
| Further information | : | Form of exposure : Inhalable fraction and vapor. |  |  |  |
|---------------------|---|--|--|--|--|

|                |          |                              |                                   |      |  |
|----------------|----------|------------------------------|-----------------------------------|------|--|
| Diethanolamine | 111-42-2 | SKIN_DES : Skin designation: | Can be absorbed through the skin. | 2009 | ACGIH:US. ACGIH Threshold Limit Values, as amended |
|----------------|----------|------------------------------|-----------------------------------|------|--|

|                     |   |  |  |  |  |
|---------------------|---|--|--|--|--|
| Further information | : | Form of exposure : Inhalable fraction and vapor. |  |  |  |
|---------------------|---|--|--|--|--|

|                |          |  |                     |      |   |
|----------------|----------|--|---------------------|------|---|
| Diethanolamine | 111-42-2 | REL :<br>Recommended exposure limit (REL): | 15 mg/m3<br>(3 ppm) | 2005 | NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended |
|----------------|----------|--|---------------------|------|---|

|                |          |                                |                     |      |   |
|----------------|----------|--------------------------------|---------------------|------|---|
| Diethanolamine | 111-42-2 | TWA :<br>Time weighted average | 15 mg/m3<br>(3 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 :<br>Short<br>term<br>exposure<br>limit            | (0.25 ppm)          | 2009       | ACGIH:US. ACGIH<br>Threshold Limit<br>Values, as amended  |
| Sulphur dioxide | 7446-09-5 | STEL :<br>Short<br>term<br>exposure<br>limit            | 13 mg/m3<br>(5 ppm) | 2005       | NIOSH/GUIDE:US.<br>NIOSH: Pocket<br>Guide to Chemical<br>Hazards, as<br>amended                         |
| Sulphur dioxide | 7446-09-5 | REL :<br>Recomm<br>ended<br>exposure<br>limit<br>(REL): | 5 mg/m3<br>(2 ppm)  | 2005       | NIOSH/GUIDE:US.<br>NIOSH: Pocket<br>Guide to Chemical<br>Hazards, as<br>amended                         |
| Sulphur dioxide | 7446-09-5 | PEL :<br>Permissi<br>ble<br>exposure<br>limit           | 13 mg/m3<br>(5 ppm) | 02<br>2006 | OSHA_TRANS:US.<br>OSHA Table Z-1<br>Limits for Air<br>Contaminants (29<br>CFR 1910.1000), as<br>amended |
| Sulphur dioxide | 7446-09-5 | STEL :<br>Short<br>term<br>exposure<br>limit            | 13 mg/m3<br>(5 ppm) | 1989       | Z1A:US. OSHA<br>Table Z-1-A (29<br>CFR 1910.1000), as<br>amended  |
| Sulphur dioxide | 7446-09-5 | TWA :<br>Time<br>weighted<br>average                    | 5 mg/m3<br>(2 ppm)  | 1989       | Z1A:US. OSHA<br>Table Z-1-A (29<br>CFR 1910.1000), as<br>amended  |

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**



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|   |                                    |
|---|------------------------------------|
| Physical state                            | : liquid                           |
| Color                                     | : no data available                |
| Odor                                      | : aromatic                         |
| Odor threshold                            | : Note: no data available          |
| pH  | : 6.6 at , 20 °C                   |
| Melting point/range                       | : Note: no data available          |
| Boiling point/boiling range               | : 75 °C at 1,013 hPa               |
| Flash point                               | : 54 °F (12 °C)                    |
| Evaporation rate                          | : Note: no data available          |
| Lower explosion limit                     | : Note: no data available          |
| Upper explosion limit                     | : Note: no data available          |
| Vapor pressure                            | : Note: no data available          |
| Vapor density                             | : Note: no data available          |
| Density                                   | : 0.895 g/cm <sup>3</sup> at 20 °C |
| Water solubility                          | : Note: completely miscible        |
| Partition coefficient:<br>n-octanol/water | : Note: no data available          |

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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

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Hazardous polymerisation does not occur.

Conditions to avoid : Protect from atmospheric moisture and water.

Incompatible materials : Formation of explosive gas/air mixtures.

Hazardous decomposition products : Sulphur oxides  
nitrogen oxides (NOx)

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity : Acute toxicity estimate: 3,306 mg/kg  
Method: Calculation method

Acute inhalation toxicity  
Ethanol : LC50: 20000 ppm  
Exposure time: 10 h  
Species: Rat

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## Acute dermal toxicity

Diethanolamine : LD50: 12.2 g/kg  
Species: Rabbit

## Skin irritation

: Species: Rabbit  
Classification: non-irritant  
Method: EEC 92/69, B.4

## Eye irritation

: Species: rabbit eye  
Classification: Risk of serious damage to eyes.  
Method: EEC 92/69, B.5

## Sensitisation

Diethanolamine : Maximisation Test  
Species: Guinea pig  
Result: Did not cause sensitisation on laboratory animals.  
Method: OECD Test Guideline 406

## Repeated dose toxicity

Diethanolamine : Species: Rat, male and female  
Application Route: Oral  
LOAEL (Lowest observed adverse effect level): 14 - 25 mg/kg/d  
Target Organs: Liver, Blood, Kidney  
Method: OECD Test Guideline 408

Species: Rat, male and female  
Application Route: Dermal  
LOAEL (Lowest observed adverse effect level): 32 mg/kg/d  
Method: OECD Test Guideline 411

## Genotoxicity in vitro

Diethanolamine : Note: In vitro tests did not show mutagenic effects.

## Imidazole

: Test Method: In vitro mammalian cell gene mutation test  
Cell type: Chinese hamster fibroblasts  
Metabolic activation: with and without metabolic activation  
Result: negative  
Method: OECD Test Guideline 476

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|  |   |
|--|---|
|  | : Test Method: reverse mutation assay<br>Cell type: Salmonella typhimurium<br>Metabolic activation: with and without metabolic activation<br>Result: negative   |
| Genotoxicity in vivo<br>Diethanolamine | : Test Method: Chromosome aberration test<br>Species: Mouse, male and female<br>Application Route: Dermal<br>Method: OECD Test Guideline 474<br>Result: negative  |
| Imidazole                              | : Test Method: Micronucleus test<br>Species: Mouse, male and female<br>Cell type: Bone marrow<br>Application Route: Oral<br>Method: OECD Test Guideline 474<br>Result: negative   |
| Teratogenicity<br>Imidazole            | : Species: Rat<br>Application Route: Oral<br><br>No observed adverse effect level: 60 mg/kg body weight<br>No observed adverse effect level: 60 mg/kg body weight<br>Method: OECD Test Guideline 414<br>Result: Embryotoxic effects and adverse effects on the offspring were detected. |
| Further information<br>Ethanol         | : Confirmed animal carcinogen with unknown relevance to humans.   |

**SECTION 12. ECOLOGICAL INFORMATION**

|                             |  |
|-----------------------------|--|
| Toxicity to fish<br>Ethanol | : LC0: 8,140 mg/l<br>Exposure time: 48 h |
|-----------------------------|--|

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Species: *Leuciscus idus* (Golden orfe)

flow-through test

LC50: 12,900 mg/l

Exposure time: 96 h

Species: *Oncorhynchus mykiss* (rainbow trout)

LC50: 14,200 mg/l

Exposure time: 96 h

Species: *Pimephales promelas* (fathead minnow)

Diethanolamine

: static test

LC50: 1,370 - 1,550 mg/l

Exposure time: 96 h

Species: *Pimephales promelas* (fathead minnow)

Imidazole

: static test

LC50: 283.6 mg/l

Exposure time: 48 h

Species: *Leuciscus idus* (Golden orfe)

Toxicity to daphnia and other aquatic invertebrates

Ethanol

: EC50: 9,268 mg/l

Exposure time: 48 h

Species: *Daphnia magna* (Water flea)

EC50: 10,800 mg/l

Exposure time: 24 h

Species: *Daphnia magna* (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.

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Toxicity to algae  
Ethanol : LC0: 5,000 mg/l  
Species: Scenedesmus quadricauda (Green 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

Toxicity to bacteria  
Ethanol : LC0: 6,500 mg/l  
Species: Pseudomonas putida  
  
EC50: 35,470 mg/l  
Exposure time: 5 min  
Species: Photobacterium phosphoreum  
  
EC50: 34,634 mg/l  
Exposure time: 30 min  
Species: Photobacterium phosphoreum

Biodegradability  
Imidazole : Result: Readily biodegradable.  
Method: OECD Test Guideline 301A

**Further information on ecology**

Biochemical Oxygen Demand (BOD)  
Diethanolamine : Value: 885 mg/g

Chemical Oxygen Demand (COD)  
Diethanolamine : Value: 1,352 mg/g

Additional ecological : No information on ecology is available.

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information

**SECTION 13. DISPOSAL CONSIDERATIONS**

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

**SECTION 14. TRANSPORT INFORMATION**

**DOT** UN/ID No. : UN 1170  
 Proper shipping name : Ethanol solution  
 Class : 3  
 Packing group : II  
 Hazard Labels : 3

**IATA** UN/ID No. : UN 1170  
 Description of the goods : Ethanol solution  
 Class : 3  
 Packaging group : II  
 Hazard Labels : 3  
 Packing instruction (cargo aircraft) : 364  
 Packing instruction (passenger aircraft) : 353  
 Packing instruction (passenger aircraft) : Y341

**IMDG** UN/ID No. : UN 1170  
 Description of the goods : Ethanol solution  
 Class : 3  
 Packaging group : II  
 Hazard Labels : 3  
 EmS Number : F-E, S-D  
 Marine pollutant : no

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

US. Toxic Substances : On TSCA Inventory

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## Control Act

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 (IECSC) : 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

**National regulatory information**

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

**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




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|                                   |  |           |
|-----------------------------------|--|-----------|
|                                   | established by SARA Title III, Section 313:  |           |
|                                   | : Diethanolamine   | 111-42-2  |
| <b>SARA 311/312 Hazards</b>       | : Fire Hazard<br>Acute Health Hazard<br>Chronic Health Hazard  |           |
| <b>CERCLA Reportable Quantity</b> | : 909 lbs  |           |
| <b>California Prop. 65</b>        | :  <b>WARNING:</b> 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> . |           |
|                                   | Diethanolamine   | 111-42-2  |
|                                   | Sulphur dioxide  | 7446-09-5 |
| <b>Massachusetts RTK</b>          | : Sulphur dioxide  | 7446-09-5 |
|                                   | : Diethanolamine   | 111-42-2  |
|                                   | : Ethanol  | 64-17-5   |
| <b>New Jersey RTK</b>             | : Ethanol  | 64-17-5   |
|                                   | : Diethanolamine   | 111-42-2  |
|                                   | : Sulphur dioxide  | 7446-09-5 |
| <b>Pennsylvania RTK</b>           | : Ethanol  | 64-17-5   |
|                                   | : Diethanolamine   | 111-42-2  |
|                                   | : Sulphur dioxide  | 7446-09-5 |

**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.

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**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: 08/20/2018

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group