

HYDRANAL™ Coulomat E**34726-500ML**

Version 1.1

Revision Date 08/20/2018

Print Date 10/17/2019

SECTION 1. IDENTIFICATION

Product name : HYDRANAL™ Coulomat E

Number : 000000020504

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 : yellowish to brownish, clear

Odor : aromatic

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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
Specific target organ toxicity - repeated exposure, Category 1

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.
Causes 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.

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

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Chemical name	CAS-No.	Concentration
Ethanol	64-17-5	>=50.00 - <70.00 %
Diethanolamine	111-42-2	>=10.00 - <20.00 %
Methanol	67-56-1	>=5.00 - <10.00 %
Imidazol hydrobromide	101023-55-6	>=5.00 - <10.00 %
Sulphur dioxide	7446-09-5	>=5.00 - <10.00 %
1H-Imidazole monohydriodide	68007-08-9	>=5.00 - <10.00 %
Imidazole	288-32-4	>=1.00 - <5.00 %
Iodine	7553-56-2	>=1.00 - <5.00 %

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 : Move to fresh air. Keep patient warm and at rest. Call a physician immediately.

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- 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.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Alcohol-resistant 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 firefighting : 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.
In case of fire hazardous decomposition products may be produced such as:
Hydrogen halides
Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.
- 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.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Ensure adequate ventilation.
Wear personal protective equipment. Unprotected persons must be kept away.
- Environmental precautions : Should not be released into the environment.
- Methods and materials for containment and cleaning up : Ventilate the area.
Do not use sparking tools.
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

- Precautions for safe handling : Wear personal protective equipment.
Use only in well-ventilated areas.
Avoid exposure - obtain special instructions before use.
- Advice on protection against fire and explosion : Keep product and empty container away from heat and sources of ignition.
No smoking.
Take precautionary measures against static discharges.
Vapours may form explosive mixtures with air.

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.

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Store in original container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Protective measures : Do not breathe vapours or spray mist.
Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye protection : Safety goggles
- Hand protection : 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.
Recommended Filter type:
A: Organic vapour type
- 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 : Short term exposure limit	(1,000 ppm)	2009	ACGIH:US. ACGIH Threshold Limit Values

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Ethanol	64-17-5	REL : Recomm ended exposure limit (REL):	1,900 mg/m3 (1,000 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
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Ethanol	64-17-5	PEL : Permissi ble exposure limit	1,900 mg/m3 (1,000 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
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Ethanol	64-17-5	TWA : Time weighted average	1,900 mg/m3 (1,000 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
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Diethanolamine	111-42-2	TWA : Time weighted average	1 mg/m3	2009	ACGIH:US. ACGIH Threshold Limit Values
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Further information	:	Form of exposure : Inhalable fraction and vapor.			
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Diethanolamine	111-42-2	SKIN_DE S : Skin designati on:	Can be absorbed through the skin.	2009	ACGIH:US. ACGIH Threshold Limit Values
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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
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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)
Methanol	67-56-1	SKIN_DE S : Skin designati on:	Can be absorbed through the skin.	2008	ACGIH:US. ACGIH Threshold Limit Values
Methanol	67-56-1	STEL : Short term exposure limit	(250 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
Methanol	67-56-1	TWA : Time weighted average	(200 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
Methanol	67-56-1	STEL : Short term exposure limit	325 mg/m3 (250 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Methanol	67-56-1	SKIN_DE S : Skin designati on:	Can be absorbed through the skin.	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards

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Methanol	67-56-1	REL : Recomm ended exposure limit (REL):	260 mg/m3 (200 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Methanol	67-56-1	PEL : Permissi ble exposure limit	260 mg/m3 (200 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Methanol	67-56-1	SKIN_FI NAL : 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)
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)
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)
Sulphur dioxide	7446-09-5	STEL : Short term exposure limit	(0.25 ppm)	2009	ACGIH:US. ACGIH Threshold Limit Values

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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
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
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)
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)
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)
Iodine	7553-56-2	STEL : Short term exposure limit	(0.1 ppm)	03 2014	ACGIH:US. ACGIH Threshold Limit Values
Further information	:	Form of exposure : Vapor and aerosol.			

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Iodine	7553-56-2	TWA : Time weighted average	(0.01 ppm)	03 2014	ACGIH:US. ACGIH Threshold Limit Values
Further information	:	Form of exposure : Inhalable fraction and vapor.			

Iodine	7553-56-2	Ceil_Tim e: Ceiling Limit Value and Time Period (if specified) :	1 mg/m3 (0.1 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
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Iodine	7553-56-2	Ceiling : Ceiling Limit Value:	1 mg/m3 (0.1 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
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Iodine	7553-56-2	Ceiling : Ceiling Limit Value:	1 mg/m3 (0.1 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Color : yellowish to brownish, clear

Odor : aromatic

Odor threshold : Note: no data available

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pH	:	Note: no data available
Melting point/range	:	Note: no data available
Boiling point/boiling range	:	67 °C
Flash point	:	54 °F (12 °C)
Evaporation rate	:	Note: no data available
Lower explosion limit	:	Note: not determined
Upper explosion limit	:	Note: not determined
Vapor pressure	:	Note: no data available
Vapor density	:	Note: no data available
Density	:	0.980 g/cm ³ at 20 °C
Water solubility	:	Note: completely miscible
Partition coefficient: n-octanol/water	:	Note: no data available
Ignition temperature	:	Note: not determined

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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

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Hazardous polymerisation does not occur.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Oxidizing agents

Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:
Hydrogen halides
Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : Note: Harmful if swallowed. The product has not been tested. The information is derived from the properties of the individual components.

Acute inhalation toxicity : Note: Harmful by inhalation. The product has not been tested. The information is derived from the properties of the individual components.

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Acute dermal toxicity	: Note: no data available
Skin irritation	: Species: Rabbit Result: No skin irritation
Eye irritation	: Species: Rabbit Result: Risk of serious damage to eyes. Note: The toxicological data mentioned are derived from an analogous product.
Sensitisation	: Note: no data available
Repeated dose toxicity	: Note: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2. The product has not been tested. The information is derived from the properties of the individual components.
Genotoxicity in vitro Diethanolamine	: Note: In vitro tests did not show mutagenic effects
Methanol	: Note: In vitro tests did not show mutagenic effects
1H-Imidazole monohydriodide	: Result: negative Method: Mutagenicity (Escherichia coli - reverse mutation assay)
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
	: Test Method: Ames test Result: negative

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- : Test Method: Chromosome aberration test in vitro
Cell type: Chinese hamster cells
Result: negative
Method: OECD Test Guideline 473
- : Test Method: reverse mutation assay
Cell type: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative

Genotoxicity in vivo
Diethanolamine

- : Test Method: Chromosome aberration test
Species: Mouse, male and female
Application Route: Dermal
Method: OECD Test Guideline 474
Result: negative

Methanol

- : Note: In vivo tests did not show mutagenic effects

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: Rat Application 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 offspring were detected.

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Further information

Ethanol

: Confirmed animal carcinogen with unknown relevance to humans.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish

: Note: Not classified due to data which are conclusive although insufficient for classification.
The product has not been tested. The information is derived from the properties of the individual components.

Toxicity to daphnia and other aquatic invertebrates

: Note: Not classified due to data which are conclusive although insufficient for classification.
The product has not been tested. The information is derived from the properties of the individual components.

Toxicity to algae

: Note: Not classified due to data which are conclusive although insufficient for classification.
The product has not been tested. The information is derived from the properties of the individual components.

Toxicity to bacteria

Ethanol

: LC0: 6,500 mg/l
Species: Pseudomonas putidaEC50: 35,470 mg/l
Exposure time: 5 min
Species: Photobacterium phosphoreumEC50: 34,634 mg/l
Exposure time: 30 min
Species: Photobacterium phosphoreum

Methanol

: EC50: 43,000 mg/l

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Exposure time: 5 min
Species: Photobacterium phosphoreum

EC50: 40,000 mg/l
Exposure time: 15 min
Species: Photobacterium phosphoreum

EC50: 39,000 mg/l
Exposure time: 25 min
Species: Photobacterium phosphoreum

1H-Imidazole
monohydriodide : Respiration inhibition
EC50: > 1,000 mg/l
Exposure time: 3 h
Species: activated sludge
Method: OECD 209

Respiration inhibition
NOEC: 320 mg/l
Exposure time: 3 h
Species: activated sludge
Method: OECD 209

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

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SECTION 13. DISPOSAL CONSIDERATIONS

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

SECTION 14. TRANSPORT INFORMATION

DOT UN/ID No. : UN 1993
 Proper shipping name : Flammable liquids, n.o.s.
 (Methanol, Ethanol)
 Class : 3
 Packing group : II
 Hazard Labels : 3

IATA UN/ID No. : UN 1993
 Description of the goods : Flammable liquids, n.o.s.
 (Methanol, Ethanol)
 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 1993
 Description of the goods : Flammable liquids, n.o.s.
 (METHANOL, ETHANOL)
 Class : 3
 Packaging group : II
 Hazard Labels : 3
 EmS Number : F-E, S-E
 Marine pollutant : no

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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.
- China. Inventory of Existing Chemical Substances : 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.

National regulatory information

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

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	:	Diethanolamine	111-42-2
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SARA 311/312 Hazards	:	Fire Hazard
		Acute Health Hazard
		Chronic Health Hazard

CERCLA Reportable Quantity	:	833 lbs
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California Prop. 65	:	
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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.

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

Massachusetts RTK	:	Iodine	7553-56-2
	:	Sulphur dioxide	7446-09-5
	:	Diethanolamine	111-42-2
	:	Methanol	67-56-1
	:	Ethanol	64-17-5

New Jersey RTK	:	Ethanol	64-17-5
	:	Diethanolamine	111-42-2
	:	Methanol	67-56-1
	:	Sulphur dioxide	7446-09-5
	:	Iodine	7553-56-2

Pennsylvania RTK	:	Ethanol	64-17-5
	:	Methanol	67-56-1
	:	Diethanolamine	111-42-2
	:	Sulphur dioxide	7446-09-5
	:	Iodine	7553-56-2

SECTION 16. OTHER INFORMATION**HMIS III****NFPA**

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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: 09/01/2016

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group