

**HYDRANAL™-Coulomat AG-Oven****34739-500ML-US**

Version 1.1

Revision Date 08/20/2018

Print Date 10/17/2019

**SECTION 1. IDENTIFICATION**

Product name : HYDRANAL™-Coulomat AG-Oven

Number : 00000020510

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 : slight, original odour

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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 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.

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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. 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	

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

Chemical nature : Mixture

Chemical name	CAS-No.	Concentration
Methanol	67-56-1	>=50.00 - <70.00 %
Propane-1,2-diol	57-55-6	>=20.00 - <30.00 %
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 %
1H-Imidazole monohydriodide	68007-08-9	>=5.00 - <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. Call a physician if irritation develops or persists.
- Eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Protect unharmed eye.

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Ingestion : When swallowed, allow water to be drunk. Do NOT induce vomiting. Call a physician immediately.

**Notes to physician**

Risks : Health injuries may be delayed.

Most important symptoms/effects, acute and delayed : Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Causes damage to organs through prolonged or repeated exposure. May cause blindness.

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

Specific hazards during firefighting : 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 : Wear an approved positive pressure self-contained breathing

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for firefighters    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.  
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.

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**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.  
Store in original container.

Advice on common storage : Do not store together with:  
Oxidizing agents

**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 vapours or spray mist.

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.  
Recommended Filter type:  
AX: Organic gas and low boiling vapour type

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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
Methanol	67-56-1	SKIN_DES : Skin designation:	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_DES : Skin designation:	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)
Propane-1,2-diol	57-55-6	TWA : Time weighted average	10 mg/m3	2007	WEEL:US. OARS. WEELs Workplace Environmental Exposure Level Guide

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Further information	:	Form of exposure : Aerosol.
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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_DES : Skin designation:	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 : Recommended 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)
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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 : Recommended exposure limit (REL):	5 mg/m3 (2 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Sulphur dioxide	7446-09-5	PEL : Permissible 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)

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state	: liquid
Color	: light yellow
Odor	: slight, original odour

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Odor threshold	: Note: no data available
pH	: 6.0 - 7.0 at , 20 °C
Melting point/range	: Note: no data available
Boiling point/boiling range	: 64 °C at 1,013 hPa
Flash point	: 55 °F (13 °C)
Evaporation rate	: Note: no data available
Flammability	: Not applicable
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 <sup>3</sup> at 20 °C
Water solubility	: Note: completely miscible
Partition coefficient:	: Note: no data available

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n-octanol/water

Ignition temperature : Note: not determined

Decomposition temperature : Note: No decomposition if used as directed.

Viscosity, dynamic : Note: no data available

Viscosity, kinematic : Note: no data available

Oxidizing properties : Note: Not applicable

**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  
Zinc  
Copper  
Iron  
Alkali metalsHazardous 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

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**SECTION 11. TOXICOLOGICAL INFORMATION**

- Acute oral toxicity : Note: Toxic if swallowed. The product has not been tested. The information is derived from the properties of the individual components.
- Acute inhalation toxicity : Note: Toxic by inhalation. The product has not been tested. The information is derived from the properties of the individual components.
- Acute dermal toxicity : Note: Toxic in contact with skin. The product has not been tested. The information is derived from the properties of the individual components.
- Skin irritation : Result: No skin irritation
- Eye irritation : Result: Risk of serious damage to eyes.  
Note: The product has not been tested. The information is derived from the properties of the individual components.
- Sensitisation  
Propane-1,2-diol : Species: human  
Note: Patch test on human volunteers did not demonstrate sensitisation properties.
- Diethanolamine : Maximisation Test  
Species: Guinea pig  
Result: Did not cause sensitisation on laboratory animals.  
Method: OECD Test Guideline 406
- 1H-Imidazole : Mouse local lymph node assay



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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: 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.

**SECTION 12. ECOLOGICAL INFORMATION**

Toxicity to fish Methanol	:	LC50: 29,400 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow)
Propane-1,2-diol	:	static test LC50: 51,600 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout)



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Method: OECD Test Guideline 203

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)

1H-Imidazole monohydriodide : LC0:  $\geq$  100 mg/l  
Exposure time: 96 h  
Species: Danio rerio (zebra fish)  
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)

Propane-1,2-diol : static test  
LC50: 43,500 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 202

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)

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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 202EC0: 0.46 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 202Toxicity 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 384121H-Imidazole  
monohydriodide: Biomass  
EC50: 8.3 mg/l  
Exposure time: 72 h  
Species: scenedesmus subspicatus  
Method: OECD Test Guideline 201Growth rate  
EC50: 34 mg/l  
Exposure time: 72 h  
Species: scenedesmus subspicatus  
Method: OECD Test Guideline 201Biomass  
NOEC: 1 mg/l  
Exposure time: 72 h  
Species: scenedesmus subspicatus

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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

Methanol

: EC50: 43,000 mg/l  
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**

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

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

Additional ecological information : Should not be released into the environment.

**SECTION 13. DISPOSAL CONSIDERATIONS**

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

**SECTION 14. TRANSPORT INFORMATION**

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

**IATA** 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 (passenger aircraft) : 352  
Packing instruction (passenger aircraft) : Y341

**IMDG** UN/ID No. : UN 1230

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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

**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. Industrial Chemical (Notification and Assessment) 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
Note	: Note: Because of the potential specific inventory listing of components of this product line, further, more detailed information can be requested from <a href="mailto:SafetyDataSheet@Honeywell.com">SafetyDataSheet@Honeywell.com</a> .

**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
	:

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	Reportable quantity: 5000 lbs	
	: Methanol	67-56-1
	:	
	Reportable quantity: 500 lbs	
	: Sulphur dioxide	7446-09-5
<b>SARA 302 Components</b>	: The following components are subject to reporting levels established by SARA Title III, Section 302:	
	: Sulphur dioxide	7446-09-5
<b>SARA 313 Components</b>	: The following components are subject to reporting levels established by SARA Title III, Section 313:	
	: Methanol	67-56-1
	: Diethanolamine	111-42-2
<b>SARA 311/312 Hazards</b>	: Fire Hazard Acute Health Hazard Chronic Health Hazard	
<b>CERCLA Reportable Quantity</b>	: 1000 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
	Methanol	67-56-1
	Sulphur dioxide	7446-09-5
<b>Massachusetts RTK</b>	: Methanol	67-56-1
	: Diethanolamine	111-42-2
	: Sulphur dioxide	7446-09-5
<b>New Jersey RTK</b>	: Methanol	67-56-1
	: Propane-1,2-diol	57-55-6
	: Diethanolamine	111-42-2
	: Sulphur dioxide	7446-09-5

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<b>Pennsylvania RTK</b>	:	Sulphur dioxide	7446-09-5
	:	Diethanolamine	111-42-2
	:	Methanol	67-56-1
	:	Propane-1,2-diol	57-55-6

**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: 09/20/2016

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group