

HYDRANAL[™]Solvent E

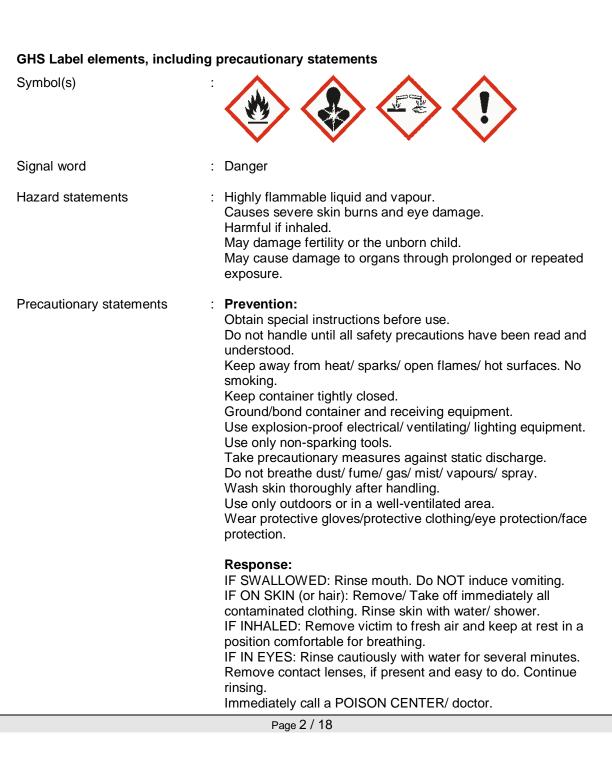
54750-500IVIL		
Version 1.2	Revision Date 02/26/2020	Print Date 05/12/2023
SECTION 1. IDENTIFICATION		
Product name	: HYDRANAL™Solvent E	
Number	: 00000020506	
Product Use Description	: Laboratory chemicals	
Manufacturer or supplier's	: Honeywell International Inc.	
details	1953 South Harvey Street	
	Muskegon, MI 49442	
For more information call	: 1-800-368-0050 +1-231-726-3171(Monday-Friday, 9:	00am-5:00nm
	+1-231-720-317 (Monday-1 hday, 3.	ooam-5.00pm)
In case of emergency call	: Medical: 1-800-498-5701 or +1-303	
	 Transportation (CHEMTREC): 1-80 +1-703-527-3887 	0-424-9300 or
	:	
	: (24 hours/day, 7 days/week)	
ECTION 2. HAZARDS IDENTIF	ICATION	
Emergency Overview		
Form	: liquid	
Color	: no data available	
0000		
Odor	: aromatic	
Classification of the substa	nce or mixture	
Classification of the substanc	e : Flammable liquids, Category 2	
or mixture	Acute toxicity, Category 4, Inhalatic	n
	Skin corrosion, Category 1B	
	Serious eye damage, Category 1 Reproductive toxicity, Category 1B	
	Specific target organ toxicity - repe	
	Liver, Blood, Kidney	alea exposure, ealegory 2,
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SAFETY DATA SHEET

34730-500ML

Version 1.2



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Honeywell

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		Wash contaminated c In case of fire: Use dr foam for extinction.		euse. nical or alcohol-resistant
		Storage: Store in a well-ventila Store locked up.	ted place. Keep	cool.
		Disposal: Dispose of contents/ o plant.	container to an a	approved waste disposal
Carcinogenicit	У			
IARC:	Diethanolamine Group 2B: Possib	ly carcinogenic to hun	111-42-2 nans	
ACGIH:	Ethanol A3: Confirmed an	imal carcinogen	64-17-5	
	Diethanolamine A3: Confirmed an	imal carcinogen	111-42-2	
SECTION 3. COMPO	OSITION/INFORMA	TION ON INGREDIE	NTS	
Chemical nature	e : N	Aixture		
	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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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.
TION 5. FIREFIGHTING MEA	เรเ	JRES
Suitable extinguishing media		: Water spray Foam Carbon dioxide (CO2) Dry powder
Unsuitable extinguishing media		: High volume water jet
Specific hazards during firefighting		nitrogen oxides (NOx) 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.
ECTION 6. ACCIDENTAL RELE	EAS	E 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		Soak up with inert absorbent material.
containment and cleaning up	•	Pick for disposal in tightly closed containers
ECTION 7. HANDLING AND ST	OR	AGE
Handling		
Precautions for safe		Avoid exposure - obtain special instructions before use.
handling	•	Exhaust ventilation at the object is necessary.
	:	
handling Advice on protection against	:	Exhaust ventilation at the object is necessary. 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.
handling Advice on protection against fire and explosion	:	Exhaust ventilation at the object is necessary. 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. Keep only in the original container, tightly closed, in a well ventilated place. Store at room temperature. (Ambient temperature: > 0 < 35°C)
handling Advice on protection against fire and explosion Storage Conditions for safe storage, including any	:	Exhaust ventilation at the object is necessary. 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. Keep only in the original container, tightly closed, in a well ventilated place. Store at room temperature.
handling Advice on protection against fire and explosion Storage Conditions for safe storage, including any	:	Exhaust ventilation at the object is necessary. 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. Keep only in the original container, tightly closed, in a well ventilated place. Store at room temperature. (Ambient temperature: > 0 < 35°C)
handling Advice on protection against fire and explosion Storage Conditions for safe storage, including any incompatibilities	:	Exhaust ventilation at the object is necessary. 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. 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.



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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. : Use with local exhaust ventilation. Engineering measures Eye protection : Safety goggles : Impervious butyl rubber gloves 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. 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	Upda te	Basis
Ethanol	64-17-5	STEL : Short term exposure limit	(1,000 ppm)	2009	ACGIH:US. ACGIH Threshold Limit Values, as amended

		1			
Ethanol	64-17-5	REL :	1,900 mg/m3	2005	NIOSH/GUIDE:US.
		Recomm	(1,000 ppm)		NIOSH: Pocket
		ended			Guide to Chemical
		exposure			Hazards, as
		limit			amended
		(REL):			

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Permissi ble exposure limit(1,000 ppm) (1,000 ppm)2006 (0 S Lim Cor CF amEthanol64-17-5TWA : Time weighted average1,900 mg/m3 (1,000 ppm)1989 (21/ Tat CF amDiethanolamine111-42-2TWA : Time weighted average1 mg/m3 absorbed through the skin.2009 AC: Thr Val absorbed through the skin.2009 AC: Thr Val amDiethanolamine111-42-2SKIN_DE S : Skin designati on:Can be absorbed through the skin.2009 AC: Thr ValFurther information:Form of exposure : Inhalable fraction and vapor.2009 AC: Thr ValDiethanolamine111-42-2REL : Recomm ended exposure limit (REL):15 mg/m3 (3 ppm)2005 AC: Thr Val AC: Thr Tat ComDiethanolamine111-42-2TWA : TWA : Tat weighted15 mg/m3 (3 ppm)1989 (21/ Tat CF	Print Date 05/12				02/26/2020	VISION Dale	Ne			1.2
Time weighted average(1,000 ppm)Tat CFI amDiethanolamine111-42-2TWA : Time weighted average1 mg/m32009AC: Thr ValFurther information:Form of exposure : Inhalable S : Skin designati on:1 mg/m32009AC: Thr ValDiethanolamine111-42-2SKIN_DE S : Skin designati on:Can be absorbed through the skin.2009AC: Thr ValFurther information:Form of exposure : Inhalable feetignationCan be absorbed through the skin.2009AC: Thr ValDiethanolamine111-42-2REL : Recomm ended exposure limit (REL):15 mg/m3 (3 ppm)2005NIC MIC Gui Haz amDiethanolamine111-42-2TWA : Time weighted15 mg/m3 (3 ppm)1989Z1/ Tat CFI	GHA_TRANS:US GHA Table Z-1 hits for Air ntaminants (29 R 1910.1000), a hended	OSHA Ta Limits for Contamin				Permissi ble exposure	64-17-5			thanol
Time weighted averageTime weighted averageThr ValFurther information:Form of exposure : Inhalable fraction and vapor.Diethanolamine111-42-2SKIN_DE S : Skin designati on:Can be absorbed through the skin.2009 AC Thr ValFurther information:Form of exposure : Inhalable fraction and vapor.2009 absorbed through the skin.AC AC Thr ValFurther information:Form of exposure : Inhalable fraction and vapor.2005 absorbed through the skin.NIC Gui 	A:US. OSHA ble Z-1-A (29 R 1910.1000), a lended	Table Z-	1989			Time weighted	64-17-5			thanol
Further information : Form of exposure : Inhalable fraction and vapor. Diethanolamine 111-42-2 SKIN_DE S : Skin designati on: Can be absorbed through the skin. 2009 AC/ Thr Val Further information : Form of exposure : Inhalable fraction and vapor. 2005 NIC Diethanolamine 111-42-2 REL : Recomm ended exposure limit (REL): 15 mg/m3 (3 ppm) 2005 NIC Diethanolamine 111-42-2 TWA : Time weighted 15 mg/m3 (3 ppm) 2005 NIC	GIH:US. ACGIH reshold Limit lues, as amende	Threshol	2009		1 mg/m3	Time weighted	111-42-2)	mine	iethanolam
S : Skin designati on:absorbed through the skin.Thr ValFurther information:Form of exposure : Inhalable fraction and vapor.Diethanolamine111-42-2REL : Recomm ended exposure limit (REL):15 mg/m3 (3 ppm)2005NIC NIC Gui Haz amDiethanolamine111-42-2REL : Recomm ended exposure limit (REL):15 mg/m3 (3 ppm)2005NIC NIC Gui Haz amDiethanolamine111-42-2TWA : Time weighted15 mg/m3 (3 ppm)1989Z1A Tak CFI				por.	fraction and va		Form of exposure	:	n	
information Information Diethanolamine 111-42-2 REL : Recomm ended exposure limit (REL): 15 mg/m3 (3 ppm) 2005 NIC NIC Gui Haz am Diethanolamine 111-42-2 TWA : Time weighted 15 mg/m3 (3 ppm) 1989 Z1A Tak CFI	GIH:US. ACGIH reshold Limit lues, as amende	Threshol	2009		absorbed through the	S : Skin designati	111-42-2	;	mine	iethanolam
Recomm ended exposure limit (REL): (3 ppm) NIC Gui Haz am Diethanolamine 111-42-2 TWA : Time weighted 15 mg/m3 (3 ppm) 1989 Z1A Tak CFI				ipor.	fraction and va	: Inhalable f	Form of exposure	:	n	
Time (3 ppm) Table weighted CF	DSH/GUIDE:US DSH: Pocket ide to Chemical zards, as iended	NIOSH: I Guide to	2005			Recomm ended exposure limit	111-42-2)	mine	iethanolam
	A:US. OSHA ble Z-1-A (29 R 1910.1000), a iended	Table Z-	1989			Time weighted	111-42-2	;	mine	iethanolam
						I	I			
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on 1.2	R	evision Date	02/26/2020		Print Date 05/12/
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	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	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	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), a amended
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), a amended
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), a amended



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Physical state	: liquid	
Color	: no data available	
Odor	: aromatic	
Odor threshold	: Note: no data available	
рН	: 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/cm3 at 20 °C	
Water solubility	: Note: completely miscible	
Partition coefficient: 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 d	lirocted
			mected.
Viscosity, dynamic		Note: no data available	
Viscosity, kinematic	:	Note: no data available	
SECTION 10. STABILITY AND R	EAC	CTIVITY	
Reactivity	:	Not classified as a reactivity hazard.	
Chemical stability	:	Stable under recommended storage	conditions.
Possibility of hazardous	:	Hazardous polymerisation does not	occur.
reactions Conditions to avoid		Protect from atmospheric moisture a	
Incompatible materials		Formation of explosive gas/air mixtu	
incompatible materials		Formation of explosive gas/an mixtu	165.
Hazardous decomposition products	:	Sulphur oxides nitrogen oxides (NOx)	
		c ()	
SECTION 11. TOXICOLOGICAL	INF	ORMATION	
Acute oral toxicity	:	Acute toxicity estimate: 3,306 mg/kg	9
		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 dam Method: EEC 92/69, B.5	age to eyes.
Sensitisation Diethanolamine	: Maximisation Test Species: Guinea pig Result: Did not cause sensitisation Method: OECD Test Guideline 406	
Repeated dose toxicity Diethanolamine	: Species: Rat, male and female Application Route: Oral LOAEL (Lowest observed adverse mg/kg/d Target Organs: Liver, Blood, Kidne Method: OECD Test Guideline 408	2 2 2
	Species: Rat, male and female Application Route: Dermal LOAEL (Lowest observed adverse Method: OECD Test Guideline 411	
Genotoxicity in vitro Diethanolamine	: Note: In vitro tests did not show m	utagenic effects.
Imidazole	: Test Method: In vitro mammalian of Cell type: Chinese hamster fibrobla Metabolic activation: with and with Result: negative Method: OECD Test Guideline 476	asts out metabolic activation
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	: Test Method: reverse mutation ass Cell type: Salmonella typhimurium Metabolic activation: with and witho Result: negative	
Genotoxicity in vivo Diethanolamine	: Test Method: Chromosome aberrat 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: Ora No observed adverse effect level: 6 No observed adverse effect level: 6 Method: OECD Test Guideline 414 Result: Embryotoxic effects and ad offspring were detected.	60 mg/kg body weight 60 mg/kg body weight
Further information Ethanol	: Confirmed animal carcinogen with the humans.	unknown relevance to
SECTION 12. ECOLOGICAL		
Toxicity to fish Ethanol	: LC0: 8,140 mg/l 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 (rainbo	ow trout)
	LC50: 14,200 mg/l Exposure time: 96 h Species: Pimephales promelas (fathea	d minnow)
Diethanolamine :	static test LC50: 1,370 - 1,550 mg/l Exposure time: 96 h Species: Pimephales promelas (fathea	d minnow)
Imidazole :	static test LC50: 283.6 mg/l Exposure time: 48 h Species: Leuciscus idus (Golden orfe)	
Toxicity to daphnia and other aqu Ethanol :	uatic invertebrates 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 fle	a)
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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sion 1.2	Revision Date 02/26/2020	Print Date 05/12/2
-		
Toxicity to algae Ethanol	: LC0: 5,000 mg/l	
	Species: Scenedesmus quadricau	da (Green algae)
Diethanolamine	: static test	
	EC50: 9.5 mg/l Exposure time: 72 h	
	Species: Pseudokirchneriella subc	apitata (algae)
Imidazole	: static test	
	EC50: 133 mg/l Exposure time: 72 h	
	Species: Desmodesmus subspicat	tus (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 phospho	reum
	EC50: 34,634 mg/l	
	Exposure time: 30 min	
	Species: Photobacterium phospho	breum
Biodegradability		
Imidazole	: Result: Readily biodegradable.	1 A
	Method: OECD Test Guideline 307	IA
Further information on e	cology	
Biochemical Oxygen Dem	and (BOD)	
Diethanolamine	: Value: 885 mg/g	
Chemical Oxygen Deman	d (COD)	
Diethanolamine	: Value: 1,352 mg/g	
Additional ecological	: No information on ecology is available	able.
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Disposal		: Observe all Federal, State, and Local Environmental regulations.		
CTION 14.	TRANSPORT INFORMATI	ON		
DOT	UN/ID No. Proper shipping name Class Packing group Hazard Labels	: UN 1170 : Ethanol solution 3 II 3		
ΙΑΤΑ	UN/ID No. Description of the goods Class Packaging group Hazard Labels Packing instruction (carg aircraft) Packing instruction (passenger aircraft) Packing instruction (passenger aircraft)	: 3 : II : 3		
IMDG	UN/ID No. Description of the goods Class Packaging group Hazard Labels EmS Number Marine pollutant	: UN 1170 : Ethanol solution : 3 : II : 3 : F-E, S-D : no		
CTION 15.	REGULATORY INFORMA	ΤΙΟΝ		
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 w	ith the inventory
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	:	All components of this product are or	n the Canadian DSL
Japan. Kashin-Hou Law List	:	On the inventory, or in compliance w	ith the inventory
Korea. Existing Chemicals Inventory (KECI)	:	On the inventory, or in compliance w	ith the inventory
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	:	On the inventory, or in compliance w	ith the inventory
China. Inventory of Existing Chemical Substances (IECSC)	:	On the inventory, or in compliance w	ith the inventory
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	:	On the inventory, or in compliance w	ith the inventory
National regulatory informa	itic	n	
US. EPA CERCLA Hazardous Substances (40 CFR 302)	: The following component(s) of this product is/are subject to s (40 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 established by SARA Title III, Section Sulphur dioxide	
SARA 313 Components	:	The following components are subject	ct to reporting levels
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	established by SARA Title I : Diethanolamine	III, Section 313: 111-42-2
SARA 311/312 Hazards	: Fire Hazard Acute Health Hazard Chronic Health Hazard	
CERCLA Reportable Quantity	: 909 lbs	
California Prop. 65	: 🔥	
	listed below, known to the S	luct can expose you to chemicals, state of California to cause cancer and luctive harm. For more information go by. 111-42-2 7446-09-5
Massachusetts RTK	: Sulphur dioxide	7446-09-5
	: Diethanolamine	111-42-2
	: Ethanol	64-17-5
New Jersey RTK	: Ethanol	64-17-5
-	: Diethanolamine	111-42-2
	: Sulphur dioxide	7446-09-5
Pennsylvania RTK	: Ethanol	64-17-5
-	: Diethanolamine	111-42-2
	: Sulphur dioxide	7446-09-5
CTION 16. OTHER INFORM	HMIS III NFPA	
Health hazard	: 3* 3	
Flammability	: 3 3	
Physical Hazard	: 0	
Instability	: 0	
Instability * - Chronic health hazard Hazard rating and rating sy of individuals trained in the		is information is intended solely for the
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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

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