

HYDRANAL™CompoSolver E

/ 34-1 L sion 1.3		Revision Date 07/09/2020	Print Date 05/12/20
CTION 1. IDENTIFICATION			
Product name	:	HYDRANAL™CompoSolver E	
Number	:	00000020508	
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, 9:00a	m-5:00pm)
In case of emergency call	:	Medical: 1-800-498-5701 or +1-303-389 Transportation (CHEMTREC): 1-800-42 +1-703-527-3887	
	:	(24 hours/day, 7 days/week)	
CTION 2. HAZARDS IDENTIF		TION	
Emergency Overview			
Form		: liquid	
Color		yellowish	
Odor		aromatic	
Classification of the substa	anco	e or mixture	
Classification of the substand	ce	: Flammable liquids, Category 2	
or mixture		Eye irritation, Category 2A Carcinogenicity, Category 2	
		Reproductive toxicity, Category 1B	
GHS Label elements, inclue	ding	g precautionary statements	
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Symbol(s)		>
Signal word	: Danger	
Hazard statements	: Highly flammable liquid and vapou Causes serious eye irritation. Suspected of causing cancer. May damage fertility or the unborr	
Precautionary statements	 Prevention: Obtain special instructions before Do not handle until all safety precaunderstood. Keep away from heat/ sparks/ opessmoking. Keep container tightly closed. Ground/bond container and receive Use explosion-proof electrical/ ver Use only non-sparking tools. Take precautionary measures aga Wash skin thoroughly after handlin Wear protective gloves/protective protection. Response: IF ON SKIN (or hair): Remove/Ta contaminated clothing. Rinse skin IF IN EYES: Rinse cautiously with Remove contact lenses, if present rinsing. IF exposed or concerned: Get mean If eye irritation persists: Get medic In case of fire: Use dry sand, dry of foam for extinction. 	autions have been read and en flames/ hot surfaces. No ring equipment. htilating/ lighting equipment. ainst static discharge. ng. clothing/eye protection/face ke off immediately all with water/ shower. water for several minutes. and easy to do. Continue dical advice/ attention. cal advice/ attention.
	Storage: Store in a well-ventilated place. Ke Store locked up.	eep cool.
	Disposal: Dispose of contents/ container to a plant.	an approved waste disposal
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Carcinogenicity	,		
IARC:	2-Methylimidazole Group 2B: Possibly carcinoge	693-98-1 enic to humans	
ACGIH:	Ethanol A3: Confirmed animal carcino	64-17-5 ogen	
TION 3. COMPO	SITION/INFORMATION ON II	NGREDIENTS	
Chemical nature	: Mixture		
	Chemical name	CAS-No.	Concentration
Ethanol		64-17-5	>=90.00 - <=100.00 %
2-Methylimidazo	le	693-98-1	>=1.00 - <5.00 %
Sulphur dioxide		7446-09-5	>=1.00 - <5.00 %
TION 4. FIRST A	ND MEASURES		
General advice		eds to protect himself. Ta ediately. Move out of dan	
Inhalation	: Move to fresh physician imr	n air. Keep patient warm a mediately.	and at rest. Call a
Skin contact	: Wash off imm persists, call	nediately with plenty of wa a physician.	ater. If skin irritation
Eye contact		f contact with eyes, rinse i ek medical advice. Protec	
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: When swallowed, allow water to be vomiting. Call a physician immediate	
: No information available.	
: Treat symptomatically.	
SURES	
: Water spray Foam Carbon dioxide (CO2) Dry powder	
: High volume water jet	
: In the event of fire, wear self-contai	ined breathing apparatus.
: Use extinguishing measures that an circumstances and the surrounding	
: Should not be released into the envi	ironment.
: Soak up with inert absorbent materia Pick for disposal in tightly closed cor	
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	 vomiting. Call a physician immediate No information available. Treat symptomatically. SURES Water spray Foam Carbon dioxide (CO2) Dry powder High volume water jet In the event of fire, wear self-conta Use extinguishing measures that a circumstances and the surrounding ASE MEASURES Remove all sources of ignition. Ensure adequate ventilation. Evacuate personnel to safe areas. Should not be released into the environment of the surrounding Pick for disposal in tightly closed context.



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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	:	Do not store together with: Oxidizing agents
TION 8. EXPOSURE CONTI	ROL	S/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/dust.
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.
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Skin and body prote	ection :	Protective suit			
Respiratory protect	ion :	In case of insuff equipment.	icient ventilation	wear suit	able respiratory
Hygiene measures		Remove and wa	aminated clothing ash contaminated fore breaks and a not eat or drink.	clothing	before re-use.
Exposure Guidelin 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
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, as amended
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), as amended
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), as amended



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on 1.3	R	evision Date	07/09/2020		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 amende
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	: yellowish	
Odor	: aromatic	
Odor threshold	: Note: No data available	
рН	: ca. 6	
Melting point/range	: Note: No data available	
Boiling point/boiling range	: 76 °C	
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	: 0.802 g/cm3 at 20 °C	
Water solubility	: Note: No data available	
Partition coefficient: n-octanol/water	: Note: No data available	
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Ignition temperature	: No	te: Not applicable	
Decomposition temperature		te: No decomposition if used as dire	ected.
Viscosity, dynamic		te: No data available	
Viscosity, kinematic		te: No data available	
ECTION 10. STABILITY AND R	EACTIV	ΊΤΥ	
Reactivity	: No	t classified as a reactivity hazard.	
Chemical stability	: Sta	able under recommended storage co	onditions.
Possibility of hazardous reactions	: Ha	zardous polymerisation does not oc	cur.
Conditions to avoid	: He	eat, flames and sparks.	
Incompatible materials	All An	kidizing agents kali metals nmonia proxides	
	Zir	C	
ECTION 11. TOXICOLOGICAL Acute oral toxicity	Zin INFORM : Ac)
	Zin INFORM : Ac	IATION sute toxicity estimate: > 5,000 mg/kg]
	Zin INFORM : Ac Ma : Ac Ex	IATION sute toxicity estimate: > 5,000 mg/kg	



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Acute dermal toxicity 2-Methylimidazole	: LD50: > 2,000 mg/kg Species: Rat, male and female Method: OECD Test Guideline 402	2
Skin irritation	: Result: No skin irritation	
Eye irritation	: Result: Irritating to eyes.	
Sensitisation 2-Methylimidazole	: Mouse local lymph node assay Species: Mouse Result: Did not cause sensitisatior Method: OECD Test Guideline 429	
Teratogenicity 2-Methylimidazole	: Species: RatApplication Route: Or No observed adverse effect level: No observed adverse effect level: Method: OECD Test Guideline 414 Result: Embryotoxic effects and ac offspring were detected.	>50 mg/kg body weight 2 mg/kg body weight 4
Further information	: Note: No data available	
ECTION 12. ECOLOGICAL	INFORMATION	
Toxicity to fish Ethanol	: LC0: 8,140 mg/l Exposure time: 48 h Species: Leuciscus idus (Golden c	- t -)
		one)
	flow-through test LC50: 12,900 mg/l	one)



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	Exposure time: 96 h Species: Oncorhynchus mykiss (rainb LC50: 14,200 mg/l Exposure time: 96 h Species: Pimephales promelas (fathe	
2-Methylimidazole	: static test LC50: 190 mg/l Exposure time: 96 h Species: Leuciscus idus (Golden orfe) Method: DIN 38412	
Toxicity to daphnia and other a Ethanol	iquatic 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)	1
2-Methylimidazole	: static test EC50: 225.31 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Method: Directive 67/548/EEC, Anney	
Toxicity to algae Ethanol	: LC0: 5,000 mg/l Species: Scenedesmus quadricauda	(Green algae)
2-Methylimidazole	: static test EC50: 256.3 mg/l Exposure time: 72 h Species: Desmodesmus subspicatus Method: DIN 38412	(green algae)
	static test EC50: 189 mg/l Exposure time: 72 h Species: Desmodesmus subspicatus Method: DIN 38412	(green algae)
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Version 1.3 Revision Date 07/09/2020 Print Date 05/ Toxicity to bacteria : LC0: 6,500 mg/l 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 .	1 <u>2/202</u>		
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			
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			
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			
Species: Pseudomonas putida EC50: 35,470 mg/l Exposure time: 5 min Species: Photobacterium phosphoreum EC50: 34,634 mg/l			
EC50: 35,470 mg/l Exposure time: 5 min Species: Photobacterium phosphoreum EC50: 34,634 mg/l			
Exposure time: 5 min Species: Photobacterium phosphoreum EC50: 34,634 mg/l			
Exposure time: 5 min Species: Photobacterium phosphoreum EC50: 34,634 mg/l			
EC50: 34,634 mg/l			
	Species: Photobacterium phosphoreum		
Exposure time: 30 min	Exposure time: 30 min		
Species: Photobacterium phosphoreum			
Biodegradability			
2-Methylimidazole : Result: Readily biodegradable.			
Value: > 60 %			
Further information on ecology			
regulations.			
CTION 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			
Description of the goods : Ethanol solution Class : 3			
Description of the goods : Ethanol solution Class : 3 Packaging group : II			
Description of the goods: Ethanol solutionClass: 3Packaging group: IIHazard Labels: 3			
Description of the goods: Ethanol solutionClass: 3Packaging group: IIHazard Labels: 3Packing instruction (cargo: 364			
Description of the goods: Ethanol solutionClass: 3Packaging group: IIHazard Labels: 3			
Description of the goods: Ethanol solutionClass: 3Packaging group: IIHazard Labels: 3Packing instruction (cargo: 364			
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ersion 1.3		Revision Date 07/09/2020	Print Date 05/12/202
IMDG	aircraft) Packing instruction (passenger aircrated) Packing instruction (passenger aircrated) UN/ID No. Description of the Class Packaging group Hazard Labels EmS Number Marine pollutant	t) h : Y341 t) : UN 1170	
CTION 15.		ORMATION	
	_		
Inventor	ies		
US. Toxi Control A	c Substances Act	: On TSCA Inventory	
	. Industrial I (Notification and nent) Act	: On the inventory, or in compliance wit	h the inventory
Environn Act (CEF	Canadian nental Protection PA). Domestic ces List (DSL)	: All components of this product are on	the Canadian DSL
Japan. K	ashin-Hou Law List	: On the inventory, or in compliance wit	h the inventory
	oxic Chemical ₋aw (TCCL) List	: On the inventory, or in compliance wit	h the inventory
Substand	es. The Toxic ces and Hazardous ear Waste Control	: On the inventory, or in compliance wit	h the inventory
	iventory of Existing I Substances	: On the inventory, or in compliance wit	h the inventory
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New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	: On the inventory, or in compliance	e with the inventory		
National regulatory inform	ation			
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	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.			
SARA 311/312 Hazards	Fire Hazard Acute Health Hazard Chronic Health Hazard			
California Prop. 65	: WARNING: This product ca listed below, known to the State of birth defects or other reproductive to www.P65Warnings.ca.gov. 2-Methylimidazole Sulphur dioxide	California to cause cancer and		
Massachusetts RTK	: Ethanol : Sulphur dioxide	64-17-5 7446-09-5		
New Jersey RTK	Ethanol 64-17-5 Sulphur dioxide 7446-09-5			
Pennsylvania RTK	: Ethanol : Sulphur dioxide	64-17-5 7446-09-5		
ECTION 16. OTHER INFORMATION				
Hoolth borord	HMIS III NFPA			
Health hazard	: 3* 3			
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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.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group

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