

### HYDRANAL<sup>™</sup> Test Solution 5.0

rsion 1.1	Revision Date 03/03/2020	Print Date 05/12/2
CTION 1. IDENTIFICATION		
Product name	: HYDRANAL™ Test Solution 5.0	
Number	: 00000020616	
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-	5:00pm)
In case of emergency call	<ul> <li>Medical: 1-800-498-5701 or +1-303-389-14</li> <li>Transportation (CHEMTREC): 1-800-424- +1-703-527-3887</li> </ul>	
	:	
	: (24 hours/day, 7 days/week)	
Emergency Overview Form	: liquid	
Color	: colourless	
Odor	: aromatic	
Classification of the subst	ance or mixture	
Classification of the substan	ce : Flammable liquids, Category 3	
or mixture	Acute toxicity, Category 4, Oral	
	Acute toxicity, Category 4, Inhalation Acute toxicity, Category 4, Dermal	
	Skin irritation, Category 2	
	Serious eye damage, Category 1	0
	Specific target organ toxicity - single expo	sure, Category 3,
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iratory system, Central nervous system ation hazard, Category 1 itionary statements in the statements in the system of the system is system of the system mable liquid and vapour. ful if swallowed, in contact with skin or if inhaled. be fatal if swallowed and enters airways. es skin irritation.
er mable liquid and vapour. ful if swallowed, in contact with skin or if inhaled. be fatal if swallowed and enters airways. es skin irritation.
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ful if swallowed, in contact with skin or if inhaled. be fatal if swallowed and enters airways. es skin irritation.
es serious eye damage. cause respiratory irritation. cause drowsiness or dizziness.
ention: away from heat/ sparks/ open flames/ hot surfaces. No ing. container tightly closed. nd/bond container and receiving equipment. explosion-proof electrical/ ventilating/ lighting equipment. only non-sparking tools. precautionary measures against static discharge. I breathing dust/ fume/ gas/ mist/ vapours/ spray. skin thoroughly after handling. ot eat, drink or smoke when using this product. only outdoors or in a well-ventilated area. protective gloves/protective clothing/eye protection/facection.
onse: /ALLOWED: Immediately call a POISON CENTER or r/ physician. Rinse mouth. I SKIN (or hair): Remove/ Take off immediately all minated clothing. Rinse skin with water/ shower. HALED: Remove victim to fresh air and keep at rest in a on comfortable for breathing.
EYES: Rinse cautiously with water for several minutes. ove contact lenses, if present and easy to do. Continue



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rsion 1.1       Revision Date 03/03/2020       Print Date 05/12/2         rinsing. Immediately call a POISON CENTER/ doctor. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash 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 container tightly closed. Keep cool. Store locked up.       Storage: Dispose of contents/ container to an approved waste disposal plant.         Disposal: Dispose of contents/ container to an approved waste disposal plant.       Disposal plant.         Carcinogenicity       No component of this product present at levels greater than or equal to 0.1% is identified as a know anticipated carcinogen by NTP, IARC, or OSHA.         Chemical nature       : Mixture         Chemical nature       : Mixture         Chemical nature       : Mixture         0-Xylene       95-47-6       >=70.00 - <30.00 %         Butan-1-ol       71-36-3       >=20.00 - <30.00 %         CTION 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	813-100ML			
Immediately call a POISON CENTER/ doctor. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. In case of fice: Use dry sand, dry chemical or alcohol-resistant foam for extinction. Storage: Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Disposal: Dispose of contents/ container to an approved waste disposal plant. Carcinogenicity No component of this product present at levels greater than or equal to 0.1% is identified as a know anticipated carcinogen by NTP, IARC, or OSHA. CTION 3. COMPOSITION/INFORMATION ON INGREDIENTS Chemical nature : Mixture Chemical nature : Mixture Chemical nature : Mixture Chemical nature : Mixture Chemical nature : Mixture Concentration o-Xylene 95-47-6 >=70.00 - <90.00 % Butan-1-ol : 71-36-3 >=20.00 - <30.00 % Butan-1-ol : 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	rsion 1.1	Revision Date	03/03/2020	Print Date 05/12/20
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	General advice			
Page 3 / 16	Inhalation	: Move to fresh ai	r. Keep patient warm	and at rest. Call a
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Skin contact       :       Wash off 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 plent 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       :       No information available.         symptoms/effects, acute and delayed       :       No information available.         Indication of immediate       :       Treat symptomatically.	- Roy	vision Date 03/03/2020	Print Date 05/12/2
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 plent 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       :       No information available.         Most important symptoms/effects, acute and delayed       :       No information available.         Indication of immediate medical attention and special treatment needed, if necessary       :       Treat symptomatically.         CTION 5. FIREFIGHTING MEASURES       :       Suitable extinguishing media       :       Water spray Foam Carbon dioxide (CO2) Dry powder         Unsuitable extinguishing media       :       Do not use a solid water stream as it may scatter and spreatire. Yapours may form explosive mixtures with air. Vapours may form explosive mixtures with air. 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.         Special protective equipment for firefighters       :       Wear an approved positive pressure self-contained breathi apparatus in addition to standard fire fighting gear.         Further information       :       Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		151011 Date 03/03/2020	
Eye contact       :       In the case of contact with eyes, rinse immediately with plent 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       :       Wo information available.         Most important symptoms/effects, acute and delayed       :       No information available.         Indication of immediate medical attention and special treatment needed, if necessary       :       Treat symptomatically.         CTION 5. FIREFIGHTING MEASURES       Suitable extinguishing media       :       Water spray Foam Carbon dioxide (CO2) Dry powder         Unsuitable extinguishing media       :       Do not use a solid water stream as it may scatter and spratifie.         Specific hazards during firefighting       :       I carbon dioxide (CO2) Dry powder         Special protective equipment for firefighters       :       Wear an approved positive pressure self-contained breathi apparatus in addition to standard fire fighting gear.         Further information       :       Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	physi	cian immediately.	
Ingestion       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       Notes to physician         Most important       : No information available.         symptoms/effects, acute and delayed       : Treat symptomatically.         medical attention and special treatment needed, if necessary       : Treat symptomatically.         CTION 5. FIREFIGHTING MEASURES       Suitable extinguishing media         Suitable extinguishing media       : Water spray Foam Carbon dioxide (CO2) Dry powder         Unsuitable extinguishing media       : Do not use a solid water stream as it may scatter and spreat fire.         Specific hazards during firefighting       : Flammable.         Vapours may form explosive mixtures with air. Vapours may form syntravel to areas away from work site before igniting/flashing back to vapor source.         Special protective equipment for firefighters       : Wear an approved positive pressure self-contained breathi apparatus in addition to standard fire fighting gear.         Further information       : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			er. If skin irritation
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for firefightersapparatus in addition to standard fire fighting gear.Further information: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	Vapo Vapo Vapo	burs may form explosive mixtures burs are heavier than air and may fors may travel to areas away from	spread along floors.
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. 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).
TION 7. HANDLING AND ST Handling	OR	AGE
nanunny		
Precautions for safe handling	:	Wear personal protective equipment. Use only in well-ventilated areas.
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	:	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 CO	NTROLS/PERSONAL PROTECTION	
Protective measures	: Ensure that eyewash stations and saf the workstation location.	ety showers are close to

		Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment. Avoid breathing vapours, mist or gas.
Engineering measures	:	Use with local exhaust ventilation. Prevent vapour buildup by providing adequate ventilation during and after use.
Eye protection	:	Safety goggles
Hand protection	:	Protective 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**

CAS-No.	Value	Control parameters	Upda te	Basis
95-47-6	TWA : Time weighted average	(100 ppm)	03 2014	ACGIH:US. ACGIH Threshold Limit Values, as amended
95-47-6	STEL : Short term exposure limit	(150 ppm)	03 2014	ACGIH:US. ACGIH Threshold Limit Values, as amended
-	95-47-6	95-47-6 TWA : Time weighted average 95-47-6 STEL : Short term exposure	95-47-6 TWA : (100 ppm) Time weighted average 95-47-6 STEL : (150 ppm) 95-47-6 STEL : (150 ppm) Short term exposure	95-47-6TWA : Time weighted average(100 ppm)03 201495-47-6STEL : Short term exposure(150 ppm)03 2014

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o-Xylene	95-47-6	REL : Recomm ended exposure limit (REL):	435 mg/m3 (100 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
o-Xylene	95-47-6	STEL : Short term exposure limit	655 mg/m3 (150 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
o-Xylene	95-47-6	PEL : Permissi ble exposure limit	435 mg/m3 (100 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
o-Xylene	95-47-6	STEL : Short term exposure limit	655 mg/m3 (150 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
o-Xylene	95-47-6	TWA : Time weighted average	435 mg/m3 (100 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Butan-1-ol	71-36-3	TWA : Time weighted average	(20 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended



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on 1.1	F	Revision Date	03/03/2020		Print Date 05/12/
Butan-1-ol	71-36-3	Ceil_Tim e : Ceiling Limit Value and Time Period (if specified) :		2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Butan-1-ol	71-36-3	SKIN_DE S : Skin designati on:	Can be absorbed through the skin.	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Butan-1-ol	71-36-3	PEL : Permissi ble exposure limit	300 mg/m3 (100 ppm)	02 2006	OSHA_TRANS:US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), a amended
Butan-1-ol	71-36-3	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), a amended
Butan-1-ol	71-36-3	Ceiling : Ceiling Limit Value:	150 mg/m3 (50 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), a amended



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		1 mil Balo 00, 12/2020
Color	: colourless	
Odor	: aromatic	
Odor threshold	: Note: no data available	
рН	: Note: no data available	
Melting point/range	: Note: no data available	
Boiling point/boiling range	: 116 °C at 1,013 hPa	
Flash point	: 81 °F (27 °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	: 0.850 g/cm3 at 20 °C	
Water solubility	: Note: slightly soluble	
Partition coefficient: n-octanol/water	: Note: no data available	
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gnition temperature	: Note: no data available
Decomposition temperature	
Decomposition temperature	: Note: No decomposition if used as directed.
/iscosity, dynamic	: Note: no data available
/iscosity, kinematic	: Note: no data available
TION 10. STABILITY AND RE	ΞΑCΤΙVΙΤΥ
Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous eactions	: Hazardous polymerisation does not occur.
Conditions to avoid	: Heat, flames and sparks.
ncompatible materials	: Bases Alkali metals Oxidizing agents Strong acids Halogens
Hazardous decomposition products	<ul> <li>In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).</li> </ul>
TION 11. TOXICOLOGICAL I Acute oral toxicity	NFORMATION : Acute toxicity estimate: 1,724 mg/kg Method: Calculation method
Acute inhalation toxicity	: Acute toxicity estimate: 15.49 mg/l, vapour
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sion 1.1	Revision Date 03/03/2020	Print Date 05/12/2
	Exposure time: 4 h Method: Calculation method	
Acute dermal toxicity	: Acute toxicity estimate: 1,368 mg/kg Method: Calculation method	
Skin irritation		
o-Xylene	: Result: Irritating to skin.	
Butan-1-ol	: Species: Rabbit Result: Moderate skin irritation	
Eye irritation o-Xylene	: Result: Irritating to eyes.	
Butan-1-ol	: Species: Rabbit Result: Severe eye irritation	
Repeated dose toxicity Butan-1-ol	: Species: Rat Application Route: Inhalation Exposure time: (13 Weeks) NOAEL (No observed adverse effect	level): 3000 ppm
	Species: Rat Application Route: Oral Exposure time: (13 Weeks) NOAEL (No observed adverse effect LOAEL (Lowest observed adverse eff	
Genotoxicity in vitro Genotoxicity in vivo Butan-1-ol	: Note: In vivo tests did not show mutag	genic effects
TION 12. ECOLOGICAL I	NFORMATION	
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sion 1.1	Revision Date 03/03/2020	Print Date 05/12/20
Toxicity to fish		
o-Xylene	: LC50: 16.9 mg/l	
	Exposure time: 96 h Species: Carassius auratus (goldfish	))
	Species. Calassius autatus (golulisi	1)
Butan-1-ol	: static test	
	LC50: 1,376 mg/l	
	Exposure time: 96 h	
	Species: Pimephales promelas (fath	ead minnow)
	Method: OECD Test Guideline 203	
Toxicity to daphnia and oth	or aquatic invertebrates	
Butan-1-ol	: static test	
	EC50: 1,328 mg/l	
	Exposure time: 48 h	
	Species: Daphnia magna (Water flea	a)
	Method: OECD Test Guideline 202	
Tovicity to place		
Toxicity to algae Butan-1-ol	: EC50: 225 mg/l	
	Exposure time: 96 h	
	Species: Scenedesmus capricornutu	ım (fresh water algae)
	Method: OECD Test Guideline 201	( <b>0</b> <i>)</i>
Biodegradability		
Butan-1-ol	: Result: Readily biodegradable.	
	Value: > 70 %	
Further information on e	cology	
Additional ecological	: Should not be released into the envi	ronment.
information		
TION 13. DISPOSAL CON	SIDERATIONS	
Disposal methods	: Observe all Federal, State, and Loca	
Dispusal methous	regulations.	
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DOT	UN/ID No.	: UN 1993		
	Proper shipping name	: Flammable liquids, n.o.s.		
	Class	(1-Butanol, Xylene)		
	Packing group	3 		
	Hazard Labels	3		
ΙΑΤΑ	UN/ID No.	: UN 1993		
	Description of the goods			
	Class	: 3		
	Packaging group	: 111		
	Hazard Labels	: 3		
	Packing instruction (cargo aircraft)			
	Packing instruction (passenger aircraft)	: 355		
	Packing instruction	: Y344		
	(passenger aircraft)			
IMDG	UN/ID No.	: UN 1993		
	Description of the goods	: Flammable liquids, n.o.s. (1-BUTANOL, XYLENE)		
	Class	: 3		
	Packaging group	: 111		
	Hazard Labels	: 3		
	EmS Number	: F-E, S-E		
	Marine pollutant	: no		
	IMDG Code segregation gro	oup according chapter 3.1.4.4 : NONE,		
TION 15.	REGULATORY INFORMATIO	N		
Inventor	ies			
US. Toxi Control A		CA Inventory		
	Industrial : On the : On the	inventory, or in compliance with the inventory		
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1813-100ML		
rsion 1.1	Revision Date 03/03/2020	Print Date 05/12/202
Assessment) Act 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 w	ith the inventory
Korea. Existing Chemicals Inventory (KECI)	: On the inventory, or in compliance w	vith the inventory
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	: On the inventory, or in compliance w	<i>v</i> ith the inventory
China. Inventory of Existing Chemical Substances (IECSC)	: On the inventory, or in compliance w	vith the inventory
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	: On the inventory, or in compliance w	<i>i</i> th the inventory
National regulatory informa	tion	
US. EPA CERCLA Hazardous Substances (40 CFR 302)	: The following component(s) of this p release reporting under 40 CFR 302 Reportable Quantity (RQ):	
	Reportable quantity: 1000 lbs : o-Xylene : Reportable quantity: 5000 lbs : Butan-1-ol	95-47-6 71-36-3
SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.	
SARA 313 Components	: The following components are subje established by SARA Title III, Sectio	
	: o-Xylene	95-47-6



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013-100IVIL			
rsion 1.1	Revision Date 03/0	3/2020 Print Date 05/12/20	
	: Butan-1-ol	71-36-3	
SARA 311/312 Hazards	: Fire Hazard Acute Health Hazard		
	Chronic Health Hazard	d	
		-	
CERCLA Reportable Quantity	: 1408 lbs		
Quantity			
California Prop. 65			
	reproductive harm.	ncer, birth defects, or any other	
Massachusetts RTK	: o-Xylene	95-47-6	
	: Butan-1-ol	71-36-3	
New Jersey RTK	: o-Xylene	95-47-6	
	: Butan-1-ol	71-36-3	
Ponnovlyonia BTV	· Duton 1 ol	71.26.2	
Pennsylvania RTK	: Butan-1-ol : o-Xylene	71-36-3 95-47-6	
CTION 16. OTHER INFORM			
Health hazard	HMIS III         NFP           : 3*         3	Α	
Flammability	: 3 3		
Physical Hazard	: 0		
Instability	: 0		
* - Chronic health hazard			
	stems (e.g. HMIS® III, NFP/	A): This information is intended solely for the	
of individuals trained in the		· · · · ·	
Further information			
The information provided in	this Safaty Data Shaat is a	arract to the best of our knowledge informat	
The momation provided in	•	orrect to the best of our knowledge, informat	
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#### HYDRANAL<sup>™</sup> Test Solution 5.0

#### 34813-100ML

Version 1.1

Revision Date 03/03/2020

Print Date 05/12/2023

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Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Previous Issue Date: 09/22/2016

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group

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