

**HYDRANAL™ Water Standard 10.0****34849-80ML**

Version 1.1

Revision Date 03/04/2020

Print Date 08/03/2021

**SECTION 1. IDENTIFICATION**

Product name : HYDRANAL™ Water Standard 10.0

Number : 000000020628

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, 9:00am-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 : colourless

Odor : aromatic

**Classification of the substance or mixture**

Classification of the substance or mixture : Flammable liquids, Category 3  
Skin irritation, Category 2  
Serious eye damage, Category 1  
Specific target organ toxicity - single exposure, Category 3,  
Respiratory system, Central nervous system  
Aspiration hazard, Category 1

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**GHS Label elements, including precautionary statements**

Symbol(s)



Signal word

: Danger

Hazard statements

: Flammable liquid and vapour.  
 May be fatal if swallowed and enters airways.  
 Causes skin irritation.  
 Causes serious eye damage.  
 May cause respiratory irritation.  
 May cause drowsiness or dizziness.

Precautionary statements

: **Prevention:**  
 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.  
 Take precautionary measures against static discharge.  
 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
 Wash skin thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**  
 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
 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.  
 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

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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 known or anticipated carcinogen by NTP, IARC, or OSHA.

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

Chemical nature : Mixture

Chemical name	CAS-No.	Concentration
Propylene carbonate	108-32-7	>=50.00 - <70.00 %
o-Xylene	95-47-6	>=20.00 - <30.00 %
Butan-1-ol	71-36-3	>=20.00 - <30.00 %

**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.

Skin contact : Wash off with soap and water. If skin irritation persists, call a

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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.

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder

Unsuitable extinguishing media : High volume water jet

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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.  
Remove all sources of ignition.  
Ensure adequate ventilation.

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Environmental precautions : Should not be released into the environment.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material.  
Pick for disposal in tightly closed containers

**SECTION 7. HANDLING AND STORAGE****Handling**

Precautions for safe handling : Exhaust ventilation at the object is necessary.

Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking.  
Take measures to prevent the build up of electrostatic charge.  
Normal measures for preventive fire protection.  
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.

**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.

Eye protection : Safety goggles

Hand protection : Protective gloves  
Gloves must be inspected prior to use.  
Replace when worn.

Skin and body protection : Protective suit

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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	Update	Basis
o-Xylene	95-47-6	TWA : Time weighted average	(100 ppm)	03 2014	ACGIH:US. ACGIH Threshold Limit Values, as amended
o-Xylene	95-47-6	STEL : Short term exposure limit	(150 ppm)	03 2014	ACGIH:US. ACGIH Threshold Limit Values, as amended
o-Xylene	95-47-6	REL : Recommended 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 : Permissible 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

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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
Butan-1-ol	71-36-3	Ceil_Tim e : Ceiling Limit Value and Time Period (if specified) :	150 mg/m3 (50 ppm)	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), as amended

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Butan-1-ol	71-36-3	SKIN_FI NAL : Skin designati on (Final Rule Limit Limit applies):	Can be absorbed through the skin.	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as 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), as amended

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state	: liquid
Color	: colourless
Odor	: aromatic
Odor threshold	: Note: no data available
pH	: Note: no data available
Melting point/range	: Note: no data available
Boiling point/boiling range	: 109 °C at 1,013 hPa
Flash point	: 90 °F (32 °C)
Evaporation rate	: Note: no data available
Lower explosion limit	: Note: no data available



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Upper explosion limit	: Note: no data available
Vapor pressure	: Note: no data available
Vapor density	: Note: no data available
Density	: ca. 1.000 g/cm <sup>3</sup> at 20 °C
Water solubility	: Note: immiscible
Partition coefficient: n-octanol/water	: Note: no data available
Ignition temperature	: Note: no data available
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**

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Vapours may form explosive mixture with air. Hazardous polymerisation does not occur.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Strong oxidizing agents

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**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	: Acute toxicity estimate: > 40 mg/l , vapour Exposure time: 4 h Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate: 3,437 mg/kg Method: Calculation method
Skin irritation	: Result: irritating Note: The product has not been tested. The information is derived from the properties of the individual components.
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	: Result: non-sensitizing Note: The product has not been tested. The information is derived from the properties of the individual components.
Repeated dose toxicity	: Note: no data available
Genotoxicity in vitro	: Note: no data available
Genotoxicity in vivo Propylene carbonate	: Test Method: Micronucleus test Species: Mouse Cell type: Micronucleus Application Route: Intraperitoneal injection

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Method: OECD Test Guideline 474  
Result: negative

Butan-1-ol : Note: In vivo tests did not show mutagenic effects

Carcinogenicity  
Propylene carbonate : Species: Mouse, male  
Application Route: Dermal  
Note: Did not show carcinogenic effects in animal experiments.Reproductive toxicity  
Propylene carbonate : Species: Rat  
Application Route: Oral  
Note: No toxicity to reproductionSpecies: Rat  
Application Route: Inhalation exposure  
Note: No toxicity to reproductionTeratogenicity  
Propylene carbonate : Species: Rat  
Application Route: Oral  
Note: Did not show teratogenic effects in animal experiments.**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity effects**

Toxicity to fish : Note: no data available

Toxicity to daphnia and other aquatic invertebrates : Note: no data available

Toxicity to algae : Note: no data available

**Elimination information (persistence and degradability)**

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Biodegradability : Note: no data available

**Further information on ecology**
**Ecotoxicology Assessment**

Results of PBT assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

**SECTION 13. DISPOSAL CONSIDERATIONS**

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

**SECTION 14. TRANSPORT INFORMATION**

<b>DOT</b>	UN/ID No.	: UN 1993
	Proper shipping name	: Flammable liquids, n.o.s. (1-Butanol, Xylene)
	Class	: 3
	Packing group	: III
	Hazard Labels	: 3

<b>IATA</b>	UN/ID No.	: UN 1993
	Description of the goods	: Flammable liquids, n.o.s. (1-Butanol, Xylene)
	Class	: 3
	Packaging group	: III
	Hazard Labels	: 3
	Packing instruction (cargo aircraft)	: 366
	Packing instruction (passenger aircraft)	: 355
Packing instruction (passenger aircraft)	: Y344	

<b>IMDG</b>	UN/ID No.	: UN 1993
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Description of the goods : Flammable liquids, n.o.s.  
(1-BUTANOL, XYLENE)

Class : 3

Packaging group : III

Hazard Labels : 3

EmS Number : F-E, S-E

Marine pollutant : no

IMDG Code segregation group according chapter 3.1.4.4 : NONE,

**SECTION 15. REGULATORY INFORMATION**
**Inventories**

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act : On the inventory, or in compliance with the inventory

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 with the inventory

Korea. Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC) : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

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**National regulatory information**

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: 1000 lbs  
 : o-Xylene 95-47-6  
 :  
 Reportable quantity: 5000 lbs  
 : Butan-1-ol 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 subject to reporting levels established by SARA Title III, Section 313:  
 : o-Xylene 95-47-6  
 : Butan-1-ol 71-36-3

**SARA 311/312 Hazards** : Fire Hazard  
 Acute Health Hazard  
 Chronic Health Hazard

**CERCLA Reportable Quantity** : 4082 lbs

**California Prop. 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**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

**Pennsylvania RTK** : o-Xylene 95-47-6

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: Butan-1-ol

71-36-3

**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.

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