

**HYDRANAL™ Water Standard 1.0****34828-40ML**

Version 1.1

Revision Date 03/02/2020

Print Date 05/12/2023

**SECTION 1. IDENTIFICATION**

Product name : HYDRANAL™ Water Standard 1.0

Number : 000000020622

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 : Flammable liquids, Category 3  
or mixture

**GHS Label elements, including precautionary statements**

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Symbol(s)

:



Signal word

: Warning

Hazard statements

: Flammable liquid and vapour.

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.

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.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

**Storage:**

Store in a well-ventilated place. Keep cool.

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified

: Repeated or prolonged exposure may irritate eyes, skin and respiratory system.

**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.

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

Chemical nature : Mixture

Chemical name	CAS-No.	Concentration
Anisole	100-66-3	>=90.00 - <100.00 %
Propylene carbonate	108-32-7	>=1.00 - <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. 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.

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**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
- Specific hazards during firefighting : Fire may cause evolution of:  
Carbon oxides
- 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.
- 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.  
Vapours may form explosive mixtures with air.

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**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.

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**

Contains no substances with occupational exposure limit values.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : liquid

Color : colourless

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Odor	: aromatic
Odor threshold	: Note: no data available
pH	: Note: no data available
Melting point/range	: -37 °C Note: Anisole
Boiling point/boiling range	: 153 - 155 °C at 1,013 hPa Note: Anisole
Flash point	: 109 °F (43 °C) Method: closed cup
Evaporation rate	: Note: no data available
Flammability	: Not applicable
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	: 1.000 g/cm <sup>3</sup> at 20 °C
Water solubility	: Note: insoluble

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Partition coefficient: n-octanol/water	: log Pow: 2.11 Test substance: Anisole
Ignition temperature	: 475 °C Note: Anisole
Decomposition temperature	: Note: No decomposition if used as directed.
Viscosity, dynamic	: Note: no data available
Viscosity, kinematic	: Note: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

**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.
Conditions to avoid	: Keep away from sources of ignition - No smoking.
Incompatible materials	: Strong oxidizing agents Strong acids and strong bases
Hazardous decomposition products	: Carbon oxides

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	: Acute toxicity estimate: 3,854 mg/kg Method: Calculation method
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## Acute inhalation toxicity

Anisole

: LC50: > 6.51 mg/l , vapour  
Exposure time: 4 h  
Species: Rat, male and female  
Method: OECD Test Guideline 403  
Note: No deaths

## Acute dermal toxicity

Propylene carbonate

: LD50: > 2,000 mg/kg  
Species: Rabbit, male and female  
Method: OECD Test Guideline 402

## Skin irritation

Anisole

: Species: Rabbit  
Result: Mild skin irritation  
Method: OECD Test Guideline 404

Propylene carbonate

: Species: Rabbit  
Result: slight irritation  
Method: OECD Test Guideline 404

## Eye irritation

Anisole

: Species: Rabbit  
Result: slight irritation  
Method: OECD Test Guideline 405

## Sensitisation

Anisole

: Maximisation Test  
Species: Guinea pig  
Result: Did not cause sensitisation on laboratory animals.  
Method: OECD Test Guideline 406

## Repeated dose toxicity

Anisole

: Species: Rat, male and female  
Application Route: Inhalation  
Exposure time: (29 d)  
No observed adverse effect level: 3000 mg/m3  
Method: OECD Test Guideline 412

Propylene carbonate

: Species: Rat, male and female



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Application Route: Oral  
Exposure time: (90 d)  
No observed adverse effect level: > 5000 mg/kg/d  
Method: OECD 408

Species: Rat, male and female  
Application Route: Inhalation  
Exposure time: (90 d)  
No observed adverse effect level: 100 mg/m3  
Method: OECD Test Guideline 413

**Genotoxicity in vitro**

Anisole

: Test Method: In vitro gene mutation study in mammalian cells  
Cell type: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Result: negative  
Method: OECD Test Guideline 476

Propylene carbonate

: Test Method: Ames test  
Cell type: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Result: negative  
Method: OECD Test Guideline 471

: Test Method: Chromosome aberration test in vitro  
Cell type: Chinese hamster fibroblasts  
Metabolic activation: with and without metabolic activation  
Result: negative  
Method: OECD Test Guideline 473

: Test Method: reverse mutation assay  
Cell type: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471

: Test Method: reverse mutation assay  
Cell type: Escherichia coli  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471

: Test Method: unscheduled DNA synthesis assay  
Cell type: rat hepatocytes  
Metabolic activation: without metabolic activation  
Result: negative

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Method: OECD Test Guideline 482

## Genotoxicity in vivo

Propylene carbonate

: Test Method: Micronucleus test  
Species: Mouse  
Cell type: Micronucleus  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative

## 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 reproduction

Species: Rat  
Application Route: Inhalation exposure  
Note: No toxicity to reproduction

## Teratogenicity

Propylene carbonate

: Species: Rat  
Application Route: Oral  
Note: Did not show teratogenic effects in animal experiments.

**SECTION 12. ECOLOGICAL INFORMATION**

## Toxicity to daphnia and other aquatic invertebrates

Anisole

: EC50: 27 mg/l  
Exposure time: 48 h  
Species: Daphnia (water flea)  
Method: OECD Test Guideline 202

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## Toxicity to algae

Anisole

: static test  
EC50: 30 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (algae)  
Method: OECD Test Guideline 201

static test

EC50: 47 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (algae)  
Method: OECD Test Guideline 201

Propylene carbonate

: EC50: > 900 mg/l  
Exposure time: 72 h  
Species: scenedesmus subspicatus  
Method: OECD Test Guideline 201

EC50: > 900 mg/l  
Exposure time: 72 h  
Species: scenedesmus subspicatus  
Method: OECD Test Guideline 201

## Biodegradability

Anisole

: Result: Readily biodegradable.

Propylene carbonate

: Result: Readily biodegradable.  
Method: OECD 301 B

**Further information on ecology**Additional ecological  
information

: Should not be released into the environment.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods

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

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**SECTION 14. TRANSPORT INFORMATION**

<b>DOT</b>	UN/ID No.	: UN 2222
	Proper shipping name	: ANISOLE SOLUTION
	Class	: 3
	Packing group	: III
	Hazard Labels	: 3
<b>IATA</b>	UN/ID No.	: UN 2222
	Description of the goods	: ANISOLE SOLUTION
	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 2222
	Description of the goods	: ANISOLE SOLUTION
	Class	: 3
	Packaging group	: III
	Hazard Labels	: 3
	EmS Number	: F-E, S-D
	Marine pollutant	: no
IMDG Code segregation group according chapter 3.1.4.4 : NONE,		

**SECTION 15. REGULATORY INFORMATION****Inventories**US. Toxic Substances : On TSCA Inventory  
Control ActAustralia. Industrial : On the inventory, or in compliance with the inventory  
Chemical (Notification and  
Assessment) Act

Canada. Canadian : All components of this product are on the Canadian DSL

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Environmental Protection  
Act (CEPA). Domestic  
Substances List (DSL)

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

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

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

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

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

**National regulatory information**

**SARA 302 Components** : No chemicals in this material are subject to the reporting  
requirements of SARA Title III, Section 302.

**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

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**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.

**New Jersey RTK** : Anisole 100-66-3

**SECTION 16. OTHER INFORMATION**

	<b>HMIS III</b>	<b>NFPA</b>
Health hazard	: 2	2
Flammability	: 2	2
Physical Hazard	: 0	
Instability	:	0

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