

**HYDRANAL™-Water Standard 1.0****34828-6X40ML**

Version 1.0

Revision Date 02/01/2018

Print Date 02/01/2018

**SECTION 1. IDENTIFICATION**

Product name : HYDRANAL™-Water Standard 1.0

Number : 000000022701

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Manufactured by:  
Honeywell International Inc.  
1953 South Harvey Street  
Muskegon, MI 49442  
USA

Distributed by:  
VWR International  
2360 Argentia Road  
Mississauga, Ontario L5N 5Z7  
CANADA

For more information call : 1-800-932-5000  
(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

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**Classification of the substance or mixture**

Classification of the substance : Flammable liquids, Category 3  
or mixture

**GHS Label elements, including precautionary statements**

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**

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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
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.

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Water spray  
Foam  
Carbon dioxide (CO2)  
Dry powder

Unsuitable extinguishing : High volume water jet

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media

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.

**Storage**

Conditions for safe storage, including any incompatibilities : Store in original container.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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- 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
- 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

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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
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.

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**SECTION 10. STABILITY AND REACTIVITY**

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 Anisole	: LD50: 3,700 mg/kg Species: Rat
Propylene carbonate	: LD50: > 5,000 mg/kg Species: Rat, male and female Method: OECD Test Guideline 401
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

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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 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



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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  
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

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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

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

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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.

**SECTION 14. TRANSPORT INFORMATION**

**TDG** UN/ID No. : UN 2222  
Proper shipping name : ANISOLE SOLUTION  
Class : 3  
Packing group : III  
Hazard Labels : 3

**IATA** 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 : 355  
(passenger aircraft)  
Packing instruction : Y344  
(passenger aircraft)

**IMDG** UN/ID No. : UN 2222  
Description of the goods : ANISOLE SOLUTION  
Class : 3  
Packaging group : III  
Hazard Labels : 3

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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 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 : 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

**National regulatory information****WHMIS  
Components**

: Anisole

100-66-3

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: Propylene carbonate

108-32-7

**NPRI**

Canadian National Pollutant Release Inventory (NPRI): No component is listed on NPRI.

**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.

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group