

HYDRANAL™ Water Standard 0.1 PC**34446-40ML**

Version 1.1

Revision Date 02/26/2020

Print Date 05/12/2023

SECTION 1. IDENTIFICATION

Product name : HYDRANAL™ Water Standard 0.1 PC

Number : 000000018651

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 : weak

Classification of the substance or mixture

Classification of the substance : Eye irritation, Category 2A
or mixture

GHS Label elements, including precautionary statements

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Symbol(s)

:



Signal word

: Warning

Hazard statements

: Causes serious eye irritation.

Precautionary statements

: **Prevention:**

Wash skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/ attention.

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

: Substance

Chemical name	CAS-No.	Concentration
Propylene carbonate	108-32-7	<=100.00 %

SECTION 4. FIRST AID MEASURES

General advice

: First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

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- Inhalation : Remove to fresh air.
- Skin contact : After contact with skin, wash immediately with plenty of water.
- 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 (CO₂)
Dry powder
- Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:
carbon oxides (CO, CO₂).
- Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, : Wear personal protective equipment.

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protective equipment and emergency procedures	: 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. Sweep up and shovel into suitable containers for disposal.

SECTION 7. HANDLING AND STORAGE**Handling**

Precautions for safe handling	: Wear personal protective equipment. Use only in well-ventilated areas.
Advice on protection against fire and explosion	: 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.
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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures	: Ensure that eyewash stations and safety showers are close to the workstation location.
Engineering measures	: Use with local exhaust ventilation.
Eye protection	: Safety goggles
Hand protection	: Impervious 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.

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Hygiene measures : General industrial hygiene practice.

Exposure Guidelines

Contains no substances with occupational exposure limit values.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid
Color	: colourless
Odor	: weak
Odor threshold	: Note: no data available
pH	: Note: neutral
Melting point/range	: ca. -49 °C
Boiling point/boiling range	: 242 °C at 1,013 hPa
Flash point	: 275 °F (135 °C) Method: closed cup
Evaporation rate	: Note: no data available
Lower explosion limit	: 4.7 %(V)
Upper explosion limit	: 21 %(V)
Vapor pressure	: Note: no data available
Vapor density	: Note: no data available

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Density	: 1.205 g/cm ³ at 20 °C
Water solubility	: 200 g/l at 20 °C
Partition coefficient: n-octanol/water	: log Pow: -0.5
Ignition temperature	: 430 °C
Decomposition temperature	: > 242 °C Note: Decomposition temperature
Viscosity, dynamic	: 2.5 mPa.s at 25 °C
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	: Hazardous polymerisation does not occur.
Conditions to avoid	: No information available.
Incompatible materials	: Acids Oxidizing agents
Hazardous decomposition products	: In case of fire hazardous decomposition products may be produced such as: carbon oxides (CO, CO ₂).

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SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50: 33,520 mg/kg Species: Rat
Acute dermal toxicity	: LD50: > 2,000 mg/kg Species: Rabbit
Skin irritation	: Species: Rabbit Classification: non-irritant Method: OECD Test Guideline 404
Eye irritation	: Species: Rabbit Classification: irritating
Sensitisation	: Note: no data available
Repeated dose toxicity 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	: Test Method: Micronucleus test Result: negative Method: Mutagenicity (micronucleus test) : Test Method: Mutagenicity (Escherichia coli - reverse mutation)

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	assay) Result: negative Method: Mutagenicity (Escherichia coli - reverse mutation assay)
	: 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	: Species: Mouse Application Route: Dermal Method: OECD Test Guideline 451 Result : negative
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

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Ecotoxicity effects

- Toxicity to fish : LC50: > 1,000 mg/l
Exposure time: 96 h
Species: Cyprinus carpio (Carp)
Method: Directive 67/548/EEC, Annex V, C.1.
- Toxicity to daphnia and other aquatic invertebrates : static test
LC50: > 1,000 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
- Toxicity to algae : Growth inhibition
LC50: > 900 mg/l
Exposure time: 72 h
Species: Desmodesmus subspicatus (green algae)
Method: OECD Test Guideline 201
- : Growth inhibition
NOEC: 900 mg/l
Exposure time: 72 h
Species: Desmodesmus subspicatus (green algae)
Method: OECD Test Guideline 201
- Toxicity to bacteria : EC50: 25,619 mg/l
Exposure time: 16 h
Species: Bacteria
Method: DIN 38412

Elimination information (persistence and degradability)

- Biodegradability : Value: 83 - 87 %
Method: OECD 301 B

Further information on ecology**SECTION 13. DISPOSAL CONSIDERATIONS**

- Disposal methods : Observe all Federal, State, and Local Environmental

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regulations.

SECTION 14. TRANSPORT INFORMATION**DOT** Not dangerous goods**TDG** Not dangerous goods**IATA** Not dangerous goods**IMDG** Not dangerous goods**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) ActCanada. Canadian : All components of this product are on the Canadian DSL
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
ActChina. Inventory of Existing : On the inventory, or in compliance with the inventory
Chemical Substances
(IECSC)

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

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 : Acute Health Hazard

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.

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 1	1
Flammability	: 1	1
Physical Hazard	: 0	
Instability	:	1

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

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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