

SAFETY DATA SHEET



F34446 HYDRANAL Water Std 0.1 PC,040L

000000018651

Version 1.0

Revision Date 09/26/2016

Print Date 10/17/2019

SECTION 1. PRODUCT AND COMPANY 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

Symbol(s) :



SAFETY DATA SHEET



F34446 HYDRANAL Water Std 0.1 PC,040L

000000018651

Version 1.0

Revision Date 09/26/2016

Print Date 10/17/2019

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.

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.

SAFETY DATA SHEET



F34446 HYDRANAL Water Std 0.1 PC,040L

000000018651

Version 1.0

Revision Date 09/26/2016

Print Date 10/17/2019

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.
Ensure adequate ventilation.
- Environmental precautions : Should not be released into the environment.
- Methods for cleaning up : Soak up with inert absorbent material.
Sweep up and shovel into suitable containers for disposal.

SECTION 7. HANDLING AND STORAGE

Handling

- 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

- Requirements for storage : Store in original container.

SAFETY DATA SHEET



F34446 HYDRANAL Water Std 0.1 PC,040L

000000018651

Version 1.0

Revision Date 09/26/2016

Print Date 10/17/2019

areas and containers

Keep containers tightly closed in a dry, cool and well-ventilated place.

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.

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

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

SAFETY DATA SHEET



F34446 HYDRANAL Water Std 0.1 PC,040L

000000018651

Version 1.0

Revision Date 09/26/2016

Print Date 10/17/2019

Lower explosion limit	: 4.7 %(V)
Upper explosion limit	: 21 %(V)
Density	: 1.205 g/cm3 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

SECTION 10. STABILITY AND REACTIVITY

Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not occur.
Conditions to avoid	: No information available.
Incompatible materials to avoid	: Acids Oxidizing agents
Hazardous decomposition products	: In case of fire hazardous decomposition products may be produced such as: carbon oxides (CO, CO ₂).

F34446 HYDRANAL Water Std 0.1 PC,040L

000000018651

Version 1.0

Revision Date 09/26/2016

Print Date 10/17/2019

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 assay) Result: negative Method: Mutagenicity (Escherichia coli - reverse mutation assay) : Result: negative

SAFETY DATA SHEET



F34446 HYDRANAL Water Std 0.1 PC,040L

000000018651

Version 1.0

Revision Date 09/26/2016

Print Date 10/17/2019

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

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 : static test

SAFETY DATA SHEET



F34446 HYDRANAL Water Std 0.1 PC,040L

000000018651

Version 1.0

Revision Date 09/26/2016

Print Date 10/17/2019

aquatic invertebrates	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 regulations.
------------------	--

SECTION 14. TRANSPORT INFORMATION

DOT	Not dangerous goods
TDG	Not dangerous goods
IATA	Not dangerous goods
IMDG	Not dangerous goods

F34446 HYDRANAL Water Std 0.1 PC,040L

000000018651

Version 1.0

Revision Date 09/26/2016

Print Date 10/17/2019

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. Toxic Chemical Control Law (TCCL) List : 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

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

SAFETY DATA SHEET



F34446 HYDRANAL Water Std 0.1 PC,040L

000000018651

Version 1.0

Revision Date 09/26/2016

Print Date 10/17/2019

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

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