

**HYDRANAL™ Water Standard 0.1****34847-40ML**

Version 3.2

Revision Date 11/09/2020

Print Date 05/12/2023

**SECTION 1. IDENTIFICATION**

Product name : HYDRANAL™ Water Standard 0.1

Number : 000000020627

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  
Acute toxicity, Category 4, Inhalation  
Acute toxicity, Category 4, Dermal  
Skin irritation, Category 2  
Eye irritation, Category 2A  
Specific target organ toxicity - single exposure, Category 3,  
Respiratory system, Central nervous system

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Aspiration hazard, Category 1

**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.  
Harmful in contact with skin or if inhaled.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation, and 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.  
Call a POISON CENTER/ doctor if you feel unwell.  
Do NOT induce vomiting.  
If skin irritation occurs: Get medical advice/ attention.

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If eye irritation persists: Get medical advice/ attention.  
Take off contaminated clothing and wash before reuse.  
In case of fire: Use dry sand, dry chemical or alcohol-resistant 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
o-Xylene	95-47-6	<100.00 %
Water	7732-18-5	0.01 %

**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.

Skin contact : Wash off immediately with plenty of water. If skin irritation

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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 : Never give anything by mouth to an unconscious person. Rinse mouth with water. Drink 1 or 2 glasses of water. 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 : Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

Specific hazards during firefighting : Flammable.  
Vapours may form explosive mixtures with air.  
Vapours are heavier than air and may spread along floors.  
Vapors may travel to areas away from work site before igniting/flashing back to vapor source.

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.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

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|---|---|--|
| Personal precautions, protective equipment and emergency procedures | : | Evacuate personnel to safe areas.<br>Wear personal protective equipment. Unprotected persons must be kept away.<br>Ensure adequate ventilation.<br>Remove all sources of ignition.   |
| Environmental precautions   | : | Should not be released into the environment.<br>Do not allow run-off from fire fighting to enter drains or water courses.  |
| Methods and materials for containment and cleaning up               | : | Ventilate the area.<br>Do not use sparking tools.<br>Use explosion-proof equipment.<br>Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). |

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

- |   |   |  |
|---|---|--|
| Precautions for safe handling                   | : | Wear personal protective equipment.<br>Use only in well-ventilated areas.  |
| Advice on protection against fire and explosion | : | Keep product and empty container away from heat and sources of ignition.<br>No smoking.<br>Take precautionary measures against static discharges.<br>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.<br>Recommended storage temperature: 2 - 8 °C<br>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.  
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.  
Prevent vapour buildup by providing adequate ventilation during and after use.
- 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 the case of vapour formation use a respirator with an approved filter.
- Hygiene measures : Take off all contaminated clothing immediately.  
Recommended preventive skin protection  
When using do not eat or drink.  
Wash hands before breaks and at the end of workday.  
Avoid contact with the skin and the eyes.

**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

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o-Xylene	95-47-6	REL : Recomm ended 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 : Permissi ble 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
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

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Color : colourless

Odor : aromatic

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Odor threshold	: Note: No data available
pH	: Note: No data available
Melting point/range	: -25 °C
Boiling point/boiling range	: 143 - 145 °C at 1,013 hPa
Flash point	: ca. 86 °F (30 °C) at 1,013 hPa Method: closed cup
Evaporation rate	: Note: No data available
Lower explosion limit	: 1.7 %(V)
Upper explosion limit	: 7.6 %(V)
Vapor pressure	: 0.67 hPa at 20 °C(68 °F)
Vapor density	: Note: No data available
Density	: 0.88 g/cm3 at 20 °C
Water solubility	: Note: insoluble
Partition coefficient: n-octanol/water	: log Pow: 3.13 at 25 °C
Ignition temperature	: 465 °C



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Decomposition temperature : Note: At normal pressure may be distilled without decomposition.

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 : Heat, flames and sparks.

Incompatible materials : Strong oxidizing agents  
Formation of explosive gas/air mixtures.

Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:  
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity : LD50: 3,523 mg/kg  
Species: Rat, male  
Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral)

Acute inhalation toxicity : Note: Classification based on Annex VI of regulation 1272/2008/EC.

Acute dermal toxicity : Note: Classification based on Annex VI of regulation 1272/2008/EC.

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Skin irritation	: Result: Irritating to skin.
Eye irritation	: Result: Irritating to eyes.
Sensitisation	: Note: Not classified due to data which are conclusive although insufficient for classification.
Genotoxicity in vitro	: Note: Not classified due to data which are conclusive although insufficient for classification.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity effects**

Toxicity to fish o-Xylene	: LC50: 16.9 mg/l Exposure time: 96 h Species: Carassius auratus (goldfish)
Toxicity to algae	: Growth rate EC50: 2.2 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Method: OECD Test Guideline 201

**Further information on ecology**

Additional ecological information	: Should not be released into the environment.
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**SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods	: Observe all Federal, State, and Local Environmental regulations.
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**SECTION 14. TRANSPORT INFORMATION**

**DOT** UN/ID No. : UN 1307  
Proper shipping name : XYLENES  
Class : 3  
Packing group : III  
Hazard Labels : 3

**IATA** UN/ID No. : UN 1307  
Description of the goods : XYLENES  
Class : 3  
Packaging group : III  
Hazard Labels : 3  
Packing instruction (cargo aircraft) : 366  
Packing instruction (passenger aircraft) : 355  
Packing instruction (passenger aircraft) : Y344

**IMDG** UN/ID No. : UN 1307  
Description of the goods : XYLENES  
Class : 3  
Packaging group : III  
Hazard Labels : 3  
EmS Number : F-E, S-D  
Marine pollutant : no

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

US. Toxic Substances : On TSCA Inventory  
Control Act

Australia. 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  
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

**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** : The following components are subject to reporting levels  
established by SARA Title III, Section 313:  
: o-Xylene 95-47-6

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

**CERCLA Reportable  
Quantity** : 1000 lbs

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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.

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

**New Jersey RTK** : o-Xylene 95-47-6

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

**SECTION 16. OTHER INFORMATION**

	<b>HMIS III</b>	<b>NFPA</b>
Health hazard	: 2*	2
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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