

HYDRANAL™ Test Solution 5.0**34813-500ML**

Version 1.4 4

Revision Date 11/23/2025

Print Date 11/23/2025

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : HYDRANAL™ Test Solution 5.0

SDS Number : 000000020616

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : CHEMSUPPLY AUSTRALIA PTY LTD
38-50 Bedford St.
Gillman SA 5013, Australia

For more information call : +61 8 8440 2000
(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : Medical: 1 866-479-8788 or +1 303-739-1378
: **Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887**
:
: **CHEMTREC in Australia: +(61)-290372994**
: (24 hours/day, 7 days/week)

2. HAZARDS IDENTIFICATION**Classification of the substance or mixture**

Classification of the substance or mixture : Flammable liquids, Category 3
Acute toxicity, Category 4, Oral
Acute toxicity, Category 4, Dermal
Acute toxicity, Category 4, Inhalation
Serious eye damage, Category 1
Skin irritation, Category 2
Specific target organ toxicity - single exposure, Category 3
Aspiration hazard, Category 1
Short-term (acute) aquatic hazard, Category 3

GHS Label elements, including precautionary statements

HYDRANAL™ Test Solution 5.0**34813-500ML**

Version 1.4 4

Revision Date 11/23/2025

Print Date 11/23/2025

Symbol(s)

:



Signal word

: Danger

Hazard statements

: Flammable liquid and vapour.
Harmful if swallowed.
May be fatal if swallowed and enters airways.
Harmful in contact with skin.
Causes skin irritation.
Causes serious eye damage.
Harmful if inhaled.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Harmful to aquatic life.

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.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.
Wear 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.
Immediately call a POISON CENTER/ doctor.
Specific measures (see supplemental first aid instructions on this label).

HYDRANAL™ Test Solution 5.0**34813-500ML**

Version 1.4 4

Revision Date 11/23/2025

Print Date 11/23/2025

Rinse mouth.
Do NOT induce vomiting.
If skin irritation occurs: 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.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal:

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Hazardous components

| Chemical name | CAS-No. | Concentration |
|---------------|---------|---------------|
| o-Xylene | 95-47-6 | 71 % |
| Butan-1-ol | 71-36-3 | 29 % |

4. FIRST AID MEASURES

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

Inhalation : Move 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
3/14

HYDRANAL™ Test Solution 5.0**34813-500ML**

Version 1.4 4

Revision Date 11/23/2025

Print Date 11/23/2025

- 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 : Treat symptomatically.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO₂)
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.
: HAZCHEM CODE: 3Y

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Evacuate personnel to safe areas.
Wear personal protective equipment. Unprotected persons must be kept away.
Ensure adequate ventilation.
Remove all sources of ignition.
- Environmental precautions : Should not be released into the environment.

HYDRANAL™ Test Solution 5.0

34813-500ML

Version 1.4 4

Revision Date 11/23/2025

Print Date 11/23/2025

Methods for cleaning up : Ventilate the area.
Do not use sparking tools.
Use explosion-proof equipment.
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).

7. HANDLING AND STORAGE

Handling

Advice on safe handling : Wear personal protective equipment.
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.
No smoking.
Take precautionary measures against static discharges.
Vapours may form explosive mixtures with air.

Storage

Requirements for storage areas and containers : 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.

Materials to avoid : Bases, Alkali metals, Oxidizing agents, Strong acids, Halogens

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value | Control parameters | Update | Basis |
|------------|---------|--|----------------------------------|---------|--|
| o-Xylene | 95-47-6 | STEL : Short Term Exposure Limit (STEL): | 150 ppm 655 mg/m ³ | 10 2022 | AU NOEL: Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A), as |

HYDRANAL™ Test Solution 5.0
34813-500ML

Version 1.4 4

Revision Date 11/23/2025

Print Date 11/23/2025

| | | | | | |
|------------|---------|------------------------------------|-----------------------------------|---------|---|
| | | TWA : Time Weighted Average (TWA): | 80 ppm 350 mg/m3 | 10 2022 | amended AU NOEL: Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A), as amended |
| Butan-1-ol | 71-36-3 | | Listed | 12 2011 | AU NOEL: Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A), as amended |
| | | PEAK : Peak Limitation: | 50 ppm 152 mg/m3 | 12 2011 | AU NOEL: Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A), as amended |
| | | SKIN_DES : Skin designation: | Can be absorbed through the skin. | 12 2011 | AU NOEL: Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A), as amended |

Engineering measures

Use with local exhaust ventilation.

Prevent vapour buildup by providing adequate ventilation during and after use.

Personal protective equipment

Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection : Protective gloves
Gloves must be inspected prior to use.
Replace when worn.

Eye protection : Safety goggles

Skin and body protection : Protective suit
6/14

HYDRANAL™ Test Solution 5.0**34813-500ML**

Version 1.4 4

Revision Date 11/23/2025

Print Date 11/23/2025

- 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.
- 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.
Avoid breathing vapours, mist or gas.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : liquid
- Colour : colourless
- Odour : aromatic
- pH : Note: No data available
- Melting point/ range : Note: Not applicable
- Boiling point/boiling range : 116 °C at 1,013 hPa
- Flash point : 81 °F (27 °C)
- Evaporation rate : Note: No data available
- Flammability : Flammable liquid and vapour.
- Lower explosion limit : Note: No data available
- Upper explosion limit : Note: No data available
- Vapour pressure :
Note: No data available

HYDRANAL™ Test Solution 5.0**34813-500ML**

Version 1.4 4

Revision Date 11/23/2025

Print Date 11/23/2025

| | |
|--|---|
| Vapour density | : Note: No data available |
| Density | : 0.86 g/cm ³ at 20 °C |
| Water solubility | : Note: slightly soluble |
| Partition coefficient: n-octanol/water | : Note: No data available |
| Ignition temperature | : Note: No data available |
| Decomposition temperature | : Note: No decomposition if used as directed. |
| Viscosity, dynamic | : Note: No data available |
| Viscosity, kinematic | : Note: No data available |

10. STABILITY AND REACTIVITY

| | |
|------------------------------------|---|
| 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 to avoid | : Bases Alkali metals Oxidizing agents Strong acids Halogens |
| Hazardous decomposition products | : In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). |

HYDRANAL™ Test Solution 5.0**34813-500ML**

Version 1.4 4

Revision Date 11/23/2025

Print Date 11/23/2025

11. TOXICOLOGICAL INFORMATION

| | |
|--------------------------------------|--|
| Acute oral toxicity | : Acute toxicity estimate: 1,724 mg/kg Method: Calculation method |
| Acute inhalation toxicity | : Acute toxicity estimate: 15.49 mg/l , vapour Exposure time: 4 h Method: Calculation method |
| Acute dermal toxicity | : Acute toxicity estimate: 1,368 mg/kg Method: Calculation method |
| Skin irritation o-Xylene | : Result: Irritating to skin. |
| Butan-1-ol | : Species: Rabbit Result: Moderate skin irritation |
| Eye irritation o-Xylene | : Result: Irritating to eyes. |
| Butan-1-ol | : Species: Rabbit Result: Severe eye irritation |
| Repeated dose toxicity Butan-1-ol | : Species: Rat Application Route: Inhalation Exposure time: (13 Weeks) NOAEL (No observed adverse effect level): 3000 ppm Species: Rat Application Route: Oral Exposure time: (13 Weeks) NOAEL (No observed adverse effect level): 125 mg/kg/d LOAEL (Lowest observed adverse effect level): 500 mg/kg/d |
| Genotoxicity in vitro | |

HYDRANAL™ Test Solution 5.0**34813-500ML**

Version 1.4 4

Revision Date 11/23/2025

Print Date 11/23/2025

Genotoxicity in vivo
Butan-1-ol : Note: In vivo tests did not show mutagenic effects

Aspiration toxicity : The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

12. Ecological information**Toxicity**

Toxicity to fish
o-Xylene : LC50: 16.9 mg/l
Exposure time: 96 h
Species: Carassius auratus (goldfish)

Butan-1-ol : static test
LC50: 1,376 mg/l
Exposure time: 96 h
Species: Pimephales promelas (fathead minnow)
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates
Butan-1-ol : static test
EC50: 1,328 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202

Toxicity to algae
Butan-1-ol : EC50: 225 mg/l
Exposure time: 96 h
Species: Scenedesmus capricornutum (fresh water algae)
Method: OECD Test Guideline 201

Persistence and degradability

Biodegradability

HYDRANAL™ Test Solution 5.0**34813-500ML**

Version 1.4 4

Revision Date 11/23/2025

Print Date 11/23/2025

Butan-1-ol : Result: Readily biodegradable.
Value: > 70 %

Mobility in soil
Mobility : Note: No data available

Other adverse effects

Additional ecological information : Should not be released into the environment.

Ecotoxicology Assessment

Results of PBT assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

13. DISPOSAL CONSIDERATIONS

Product : In accordance with local and national regulations.

14. TRANSPORT INFORMATION**ADR**

UN/ID No. : UN 1993
Description of the goods : FLAMMABLE LIQUID, N.O.S.
(1-BUTANOL, XYLENE)
Class : 3
Packing group : III
Classification Code : F1
Labels : 3
Special Provision 640E
Special Provision 640E

IATA

UN/ID No. : UN 1993
Description of the goods : Flammable liquid, n.o.s.
(1-Butanol, Xylene)
Class : 3
Packing group : III

HYDRANAL™ Test Solution 5.0**34813-500ML**

Version 1.4 4

Revision Date 11/23/2025

Print Date 11/23/2025

Labels : 3
Packing instruction (cargo aircraft) : 366
Packing instruction (passenger aircraft) : 355
Packing instruction (passenger aircraft) : Y344

IMDG

UN/ID No. : UN 1993
Description of the goods : FLAMMABLE LIQUID, N.O.S. (1-BUTANOL, XYLENE)
Class : 3
Packing group : III
Labels : 3
EmS Number 1 : F-E
EmS Number 2 : S-E
Marine pollutant : no

HAZCHEM CODE: 3Y

15. REGULATORY INFORMATION**National regulatory information**

Therapeutic Goods (Poisons Standard) Instrument : Schedule 6

Other international regulations**Notification status**

USA. List of Active Substances on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory, as amended : On TSCA Inventory

Australia. Inventory of Industrial Chemicals (AIIC), as amended : On the inventory, or in compliance with the inventory

HYDRANAL™ Test Solution 5.0**34813-500ML**

Version 1.4 4

Revision Date 11/23/2025

Print Date 11/23/2025

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|---|--|
| Canada. Domestic Substances List (DSL), as amended | : 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. Inventory of Chemicals and Chemical Substances (PICCS) | : 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 |
| Taiwan Chemical Substance Inventory (TCSI) | : On the inventory, or in compliance with the inventory |

16. OTHER INFORMATION**Sources of key data used to compile the Safety Data Sheet:**

1. National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]
2. Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]
3. List of Designated Hazardous Substances [NOHSC:10005(1999)]
4. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]
5. Australian Dangerous Goods Code, No. 6 [National Road Transport Commission]
6. Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP), No. 19 [NDPSC: 2004]
7. National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]

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

HYDRANAL™ Test Solution 5.0**34813-500ML**

Version 1.4 4

Revision Date 11/23/2025

Print Date 11/23/2025

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.

Person who prepared the SDS:
Solstice Product Stewardship Group

End of Safety Data Sheet