

HYDRANAL™ Solvent**34800-1L**

Version 1.1 1

Revision Date 06/11/2017

Print Date 08/05/2019

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : HYDRANAL™ Solvent

SDS Number : 000000020605

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : CHEM-SUPPLY 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: 1-800-498-5701 or +1-303-389-1414
: **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 2
Acute toxicity, Category 3, Oral
Acute toxicity, Category 3, Dermal
Acute toxicity, Category 3, Inhalation
Serious eye damage, Category 1
Skin corrosion, Category 1B
Toxic to reproduction, Category 1B
Specific target organ toxicity - single exposure, Category 1

GHS Label elements, including precautionary statements

Symbol(s) :



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Signal word : Danger

Hazard statements : Highly flammable liquid and vapour.
Toxic if swallowed, in contact with skin or if inhaled.
Causes severe skin burns and eye damage.
May damage fertility or the unborn child.
Causes damage to organs.

Precautionary statements : **Prevention:**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
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.
Do not breathe 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.
Wear protective gloves/protective clothing/eye protection/face protection.

Response:

IF SWALLOWED: Immediately call a POISON CENTER/doctor.
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
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.
Remove/ Take off immediately all contaminated clothing.
Wash contaminated clothing 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:

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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
Methanol	67-56-1	>= 60 - <= 100%
Imidazole	288-32-4	>= 10 - < 30%
Sulphur dioxide	7446-09-5	>= 5 - < 10%

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 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.

5. FIREFIGHTING MEASURES

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- 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 : In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide
Carbon dioxide (CO₂)
nitrogen oxides (NO_x)
Sulphur oxides
- 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: 2WE

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.
- 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.

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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 : Store in area designed for storage of flammable liquids.
Protect from physical damage.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Store in original container.
Protect from atmospheric moisture and water.

Materials to avoid : Oxidizing agents, Acids, Acid chlorides, Acid anhydrides,
Reducing agents, Alkali metals

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
Methanol	67-56-1	STEL : Short Term Exposure Limit (STEL):	250 ppm 328 mg/m ³	12 2011	AU NOEL: Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)
		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)
		TWA : Time Weighted Average (TWA):	200 ppm 262 mg/m ³	12 2011	AU NOEL: Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)
		SKIN_DES : Skin designation:	Can be absorbed through the	08 2005	AU OEL: Australia. OELs. (Adopted National Exposure

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			skin.		Standards for Atmospheric Contaminants in the Occupational Environment)
		STEL : Short Term Exposure Limit (STEL):	250 ppm 328 mg/m ³	08 2005	AU OEL: Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)
		TWA : Time Weighted Average (TWA):	200 ppm 262 mg/m ³	08 2005	AU OEL: Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)
Sulphur dioxide	7446-09-5	TWA : Time Weighted Average (TWA):	2 ppm 5.2 mg/m ³	12 2011	AU NOEL: Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)
		STEL : Short Term Exposure Limit (STEL):	5 ppm 13 mg/m ³	12 2011	AU NOEL: Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)
		TWA : Time Weighted Average (TWA):	2 ppm 5.2 mg/m ³	08 2005	AU OEL: Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)
		STEL : Short Term Exposure Limit (STEL):	5 ppm 13 mg/m ³	08 2005	AU OEL: Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

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Environment)

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 : Impervious butyl rubber gloves
Gloves must be inspected prior to use.
Replace when worn.

Eye protection : Safety goggles

Skin and body protection : Protective suit

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.
Do not breathe vapours or spray mist.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Colour : colourless

Odour : slight, original odour

pH : Note: no data available

Melting point/range : -98 °C

Flash point : 52 °F (11 °C)

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Lower explosion limit	:	5 %(V)
Upper explosion limit	:	31 %(V)
Vapour pressure	:	171 hPa at 20 °C(68 °F)
Density	:	0.890 g/cm ³ at 20 °C
Water solubility	:	Note: completely miscible
Ignition temperature	:	Note: not determined
Decomposition temperature	:	Note: No decomposition if used as directed.

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. Protect from atmospheric moisture and water.
Incompatible materials to avoid	:	Oxidizing agents Acids Acid chlorides Acid anhydrides Reducing agents Alkali metals
Hazardous decomposition products	:	In case of fire hazardous decomposition products may be produced such as: Carbon monoxide

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Carbon dioxide (CO₂)
nitrogen oxides (NO_x)
Sulphur oxides

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

Methanol : LD50: 5,628 mg/kg
Species: Rat

Imidazole

: LD50: 970 mg/kg
Species: Rat

Acute inhalation toxicity

Methanol : LC50: 64000 ppm
Exposure time: 4 h
Species: Rat

Acute dermal toxicity

Methanol : LD50: 15,800 mg/kg
Species: Rabbit

Skin irritation

Methanol : Species: Rabbit
Classification: irritating
Exposure time: 24 h

Imidazole

: Species: Rabbit
Result: Causes burns.
Method: OECD Test Guideline 404

Eye irritation

Methanol : Species: rabbit eye
Classification: irritating

Imidazole

: Species: Rabbit
Result: Risk of serious damage to eyes.
Method: OECD Test Guideline 405

Repeated dose toxicity

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- Methanol : Species: Rat
Application Route: Inhalation
Test substance: Methanol
Developmental Toxicity
NOAEL (maternal toxicity)
10,000 ppm
NOAEL (developmental toxicity)
5,000 ppm
Skeletal and visceral malformations.
- Genotoxicity in vitro
Methanol : Note: In vitro tests did not show mutagenic effects
- Imidazole : Test Method: In vitro mammalian cell gene mutation test
Cell type: Chinese hamster fibroblasts
Metabolic activation: with and without metabolic activation
Result: negative
Method: OECD Test Guideline 476
- : Test Method: reverse mutation assay
Cell type: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative
- Genotoxicity in vivo
Methanol : Note: In vivo tests did not show mutagenic effects
- Imidazole : Test Method: Micronucleus test
Species: Mouse, male and female
Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
- Teratogenicity
Imidazole : Species: Rat Application Route: Oral

No observed adverse effect level: 60 mg/kg body weight
No observed adverse effect level: 60 mg/kg body weight
Method: OECD Test Guideline 414
Result: Embryotoxic effects and adverse effects on the offspring were detected.

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12. Ecological information

Toxicity to fish

Methanol : LC50: 29,400 mg/l
Exposure time: 96 h
Species: Pimephales promelas (fathead minnow)

Imidazole

: static test
LC50: 283.6 mg/l
Exposure time: 48 h
Species: Leuciscus idus (Golden orfe)

Toxicity to daphnia and other aquatic invertebrates

Methanol : LC50: 10,000 mg/l
Exposure time: 24 h
Species: Daphnia (water flea)

Imidazole

: static test
EC50: 341.5 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae

Imidazole : static test
EC50: 133 mg/l
Exposure time: 72 h
Species: Desmodesmus subspicatus (green algae)
Method: DIN 38412

Toxicity to bacteria

Methanol : EC50: 43,000 mg/l
Exposure time: 5 min
Species: Photobacterium phosphoreum

EC50: 40,000 mg/l
Exposure time: 15 min
Species: Photobacterium phosphoreum

EC50: 39,000 mg/l
Exposure time: 25 min
Species: Photobacterium phosphoreum

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Biodegradability
Imidazole : Result: Readily biodegradable.
Method: OECD Test Guideline 301A

13. DISPOSAL CONSIDERATIONS

Product : In accordance with local and national regulations.

14. TRANSPORT INFORMATION**ADR**

UN/ID No. : UN 1230
Description of the goods : METHANOL SOLUTION
Class : 3
Packing group : II
Classification Code : FT1
Hazard Identification Number : 336
Labels : 3 (6.1)

IATA

UN/ID No. : UN 1230
Description of the goods : Methanol Solution
Class : 3
Packing group : II
Labels : 3 (6.1)
Packing instruction (cargo aircraft) : 364
Packing instruction (passenger aircraft) : 352
Packing instruction (passenger aircraft) : Y341

IMDG

UN/ID No. : UN 1230
Description of the goods : METHANOL SOLUTION
Class : 3
Packing group : II

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Labels : 3 (6.1)
EmS Number 1 : F-E
EmS Number 2 : S-D

Marine pollutant : no

HAZCHEM Code: 2WE

15. REGULATORY INFORMATION**National regulatory information**

Standard for the Uniform : Schedule 6
Scheduling of Medicines and
Poisons

Other international regulations**Notification status**

US. Toxic Substances : On TSCA Inventory
Control Act

Australia. Industrial Chemical : On the inventory, or in compliance with the inventory
(Notification and
Assessment) Act

Canada. 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. Toxic Chemical : On the inventory, or in compliance with the inventory
Control Law (TCCL) List

Philippines. The Toxic : On the inventory, or in compliance with the inventory
Substances and Hazardous
and Nuclear Waste Control
Act

China. Inventory of Existing : On the inventory, or in compliance with the inventory
Chemical Substances

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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

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 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

End of Safety Data Sheet