

HYDRANAL™ Coulomat AG-Oven**34739-500ML**

Version 1.6 6

Revision Date 03/06/2026

Print Date 04/08/2026

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : HYDRANAL™ Coulomat AG-Oven

SDS Number : 000000020510

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 2
Acute toxicity, Category 3, Oral
Acute toxicity, Category 3, Dermal
Serious eye damage, Category 1
Acute toxicity, Category 3, Inhalation
Reproductive toxicity, Category 1B
Specific target organ toxicity - single exposure, Category 1
Specific target organ toxicity - repeated exposure, Category 2,
Blood, Liver, Kidney

GHS Label elements, including precautionary statements

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Symbol(s)

:



Signal word

: Danger

Hazard statements

: Highly flammable liquid and vapour.
Toxic if swallowed, in contact with skin or if inhaled.
Causes serious eye damage.
May damage fertility or the unborn child.
Causes damage to organs.
May cause damage to organs through prolonged or repeated exposure.

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 or doctor/ physician. Rinse mouth.
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.

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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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration
Methanol	67-56-1	>= 50 - < 70%
Propane-1,2-diol	57-55-6	>= 20 - < 30%
2,2'-Iminodiethanol	111-42-2	>= 10 - < 20%
Imidazole	288-32-4	>= 10 - < 20%
Sulphur dioxide	7446-09-5	>= 5 - < 10%
Hydrogen iodide	10034-85-2	>= 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 : Remove to fresh air.
Keep patient warm and at rest.

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- Call a physician immediately.
- Skin contact : Wash off immediately with plenty of water.
Call a physician if irritation develops or persists.
- 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

- Symptoms : May cause blindness.
- Risks : Health injuries may be delayed.
Toxic if swallowed, in contact with skin or if inhaled.
Causes damage to organs through prolonged or repeated exposure.
- Notes to physician : Treat symptomatically.
- Additional advice : Health injuries may be delayed.

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 : In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)
Sulphur oxides
Hydrogen halides
- Special protective equipment : Wear an approved positive pressure self-contained breathing

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Store at room temperature.
(Ambient temperature: > 0 < 35°C)
Protect from atmospheric moisture and water.

Advice on common storage : Do not store together with:
Oxidizing agents

Materials to avoid : Oxidizing agents, Zinc, Copper, Iron, Alkali metals

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

Components	CAS-No.	Value	Control parameters	Update	Basis
Methanol	67-56-1	TWA : Time Weighted Average (TWA):	200 ppm 262 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
		STEL : Short Term Exposure Limit (STEL):	250 ppm 328 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.	10 2024	AU WOEL: Australia. OEL (Workplace Exposure Limits for Airborne Contaminants, Appendix A), as amended
		TWA : Time Weighted Average (TWA):	100 ppm 130 mg/m3 Containing no	10 2024	AU WOEL: Australia. OEL (Workplace Exposure Limits for Airborne Contaminants,

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			asbestos and < 1% crystalline silica.		Appendix A), as amended
Diethanolamine	111-42-2	TWA : Time Weighted Average (TWA):	3 ppm 13 mg/m3	08 2005	AU OEL: Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)
		TWA : Time Weighted Average (TWA):	0.11 ppm 0.5 mg/m3	10 2024	AU WOEL: Australia. OEL (Workplace Exposure Limits for Airborne Contaminants, Appendix A), as amended
		SKIN_DES : Skin designation:	Can be absorbed through the skin.	10 2024	AU WOEL: Australia. OEL (Workplace Exposure Limits for Airborne Contaminants, Appendix A), as amended
		TWA : Time Weighted Average (TWA):	3 ppm 13 mg/m3	12 2011	AU NOEL: Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A), as amended
Sulphur dioxide	7446-09-5	STEL : Short Term Exposure Limit (STEL):	0.25 ppm 0.65 mg/m3	10 2024	AU WOEL: Australia. OEL (Workplace Exposure Limits for Airborne Contaminants, Appendix A), as amended
		STEL : Short Term Exposure Limit (STEL):	5 ppm 13 mg/m3	12 2011	AU NOEL: Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A), as amended
		TWA : Time Weighted	2 ppm 5.2 mg/m3	12 2011	AU NOEL: Australia. National Workplace

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		Average (TWA):			OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A), as amended
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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.
Recommended Filter type:
Organic gas and low boiling vapour type
- 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 : light yellow
- Odour : slight, original odour

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pH	:	6.0 - 7.0 at , 20 °C
Melting point/ range	:	Note: No data available
Boiling point/boiling range	:	64 °C at 1,013 hPa
Flash point	:	55 °F (13 °C)
Evaporation rate	:	Note: No data available
Flammability	:	highly flammable
Lower explosion limit	:	Note: not determined
Upper explosion limit	:	Note: not determined
Vapour pressure	:	Note: No data available
Vapour density	:	Note: No data available
Density	:	0.980 g/cm ³ at 20 °C
Water solubility	:	Note: completely miscible
Partition coefficient: n-octanol/water	:	Note: No data available
Ignition temperature	:	Note: not determined
Auto-ignition temperature	:	Note: No data available
Decomposition temperature	:	Note: No decomposition if used as directed.
Viscosity, dynamic	:	Note: No data available

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Viscosity, kinematic : Note: No data available

Oxidizing properties : Note: Not applicable

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 : Oxidizing agents
Zinc
Copper
Iron
Alkali metals

Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)
Sulphur oxides
Hydrogen halides

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : Note: Toxic if swallowed. The product has not been tested. The information is derived from the properties of the individual components.

Acute inhalation toxicity : Note: Toxic by inhalation. The product has not been tested. The information is derived from the properties of the individual components.

Acute dermal toxicity : Note: Toxic in contact with skin. The product has not been

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tested. The information is derived from the properties of the individual components.

- Skin irritation : Result: No skin irritation
- Eye irritation : Result: Risk of serious damage to eyes.
Note: The product has not been tested. The information is derived from the properties of the individual components.
- Sensitisation
Propane-1,2-diol : Species: human
Note: Patch test on human volunteers did not demonstrate sensitisation properties.
- Diethanolamine : Maximisation Test
Species: Guinea pig
Result: Did not cause sensitisation on laboratory animals.
Method: OECD Test Guideline 406
- 1H-Imidazole
monohydriodide : Mouse local lymph node assay
Species: Mouse
Result: Does not cause skin sensitisation.
Method: OECD 429
- Repeated dose toxicity : Note: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2. The product has not been tested. The information is derived from the properties of the individual components.
- Genotoxicity in vitro
Methanol : Note: In vitro tests did not show mutagenic effects
- Diethanolamine : 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
- 1H-Imidazole
monohydriodide : Result: negative
Method: Mutagenicity (Escherichia coli - reverse mutation

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assay)

- : Test Method: reverse mutation assay
Cell type: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative
- : Test Method: Ames test
Result: negative
- : Test Method: Chromosome aberration test in vitro
Cell type: Chinese hamster cells
Result: negative
Method: OECD Test Guideline 473
- : Test Method: In vitro gene mutation study in mammalian cells
Cell type: Chinese Hamster Lung Cells
Result: negative
Method: OECD Test Guideline 476

Genotoxicity in vivo
Methanol

- : Note: In vivo tests did not show mutagenic effects

Diethanolamine

- : Test Method: Chromosome aberration test
Species: Mouse, male and female
Application Route: Dermal
Method: OECD Test Guideline 474
Result: negative

Imidazole

- : Test Method: Micronucleus test
Species: Mouse, male and female
Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative

Aspiration toxicity
Diethanolamine

:

Teratogenicity
Imidazole

- : Species: Rat Application Route: Oral

No observed adverse effect level: 60 mg/kg body weight

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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.

1H-Imidazole
 monohydriodide

: Test Method: reproductive and developmental toxicity study
 Species: Rat
 Result: Teratogenic effects
 Note: Not a GLP Study.

12. Ecological information
Toxicity

Toxicity to fish
 Methanol

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

Propane-1,2-diol

: static test
 LC50: 51,600 mg/l
 Exposure time: 96 h
 Species: Oncorhynchus mykiss (rainbow trout)
 Method: OECD Test Guideline 203

Diethanolamine

: static test
 LC50: 1,370 - 1,550 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)

1H-Imidazole
 monohydriodide

: LC0: >= 100 mg/l
 Exposure time: 96 h
 Species: Danio rerio (zebra fish)
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

Methanol

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

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- Propane-1,2-diol : static test
LC50: 43,500 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202
- Diethanolamine : EC50: 55 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
- EC50: 30.1 - 89.9 mg/l
Exposure time: 48 h
Species: Ceriodaphnia dubia (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.
- 1H-Imidazole monohydriodide : EC50: 1.4 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202
- EC0: 0.46 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202
- Toxicity to algae
Diethanolamine : static test
EC50: 9.5 mg/l
Exposure time: 72 h
Species: Pseudokirchneriella subcapitata (algae)
- Imidazole : static test
EC50: 133 mg/l
Exposure time: 72 h
Species: Desmodesmus subspicatus (green algae)
Method: DIN 38412
- 1H-Imidazole monohydriodide : Biomass
EC50: 8.3 mg/l
Exposure time: 72 h

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Species: scenedesmus subspicatus
Method: OECD Test Guideline 201

Growth rate
EC50: 34 mg/l
Exposure time: 72 h
Species: scenedesmus subspicatus
Method: OECD Test Guideline 201

Biomass
NOEC: 1 mg/l
Exposure time: 72 h
Species: scenedesmus subspicatus
Method: OECD Test Guideline 201

Biomass
NOEC: 1 mg/l
Exposure time: 72 h
Species: scenedesmus subspicatus
Method: OECD Test Guideline 201

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

1H-Imidazole
monohydriodide

: Respiration inhibition
EC50: > 1,000 mg/l
Exposure time: 3 h
Species: activated sludge
Method: OECD 209

Respiration inhibition
NOEC: 320 mg/l
Exposure time: 3 h
Species: activated sludge
Method: OECD 209

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Persistence and degradability

Biodegradability : Note: No data available

Bioaccumulative potential

Bioaccumulation : Note: No data available

Mobility in soil

Mobility : Note: No data available

Other adverse effects

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

Biochemical Oxygen Demand (BOD)

Diethanolamine : Value: 885 mg/g

Chemical Oxygen Demand (COD)

Diethanolamine : Value: 1,352 mg/g

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)

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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
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**

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 : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

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Australia. Inventory of Industrial Chemicals (AIC), as amended	: On the inventory, or in compliance with the inventory
Canada. Domestic Substances List (DSL), as amended	: Not in compliance with the inventory
Japan. Kashin-Hou Law List	: Not in compliance with the inventory
Korea. Existing Chemicals Inventory (KECI)	: Not in compliance with the inventory
Philippines. Inventory of Chemicals and Chemical Substances (PICCS)	: Not 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	: Not in compliance with the inventory
Note	: Note: Because of the potential specific inventory listing of components of this product line, further, more detailed information can be requested from SafetyDataSheet@solstice.com .
Taiwan Chemical Substance Inventory (TCSI)	: Not 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)]

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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.

Person who prepared the SDS:
Solstice Product Stewardship Group

End of Safety Data Sheet