

HYDRANAL™ Coulomat AG-H

34843-500ML

Version 1.3

Revision Date 25.06.2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : HYDRANAL™ Coulomat AG-H
SDS-number : 000000020626
Type of product : Mixture
Remarks : SDS according to Art. 31 of Regulation (EC) 1907/2006.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Laboratory chemicals
Uses advised against : none

1.3. Details of the supplier of the safety data sheet

Company : Honeywell International, Inc.
115 Tabor Road
Morris Plains, NJ 07950-2546
USA

Telephone :
Telefax :
For further information,
please contact: : PMTEU Product Stewardship:
SafetyDataSheet@Honeywell.com

1.4. Emergency telephone number

Emergency telephone number : +1-703-527-3887 (ChemTrec-Transport)
+1-303-389-1414 (Medical)
Country based Poison Control Center : see chapter 15.1

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Flammable liquids Category 2
H225 Highly flammable liquid and vapour.
Acute toxicity Category 3 - Oral
H301 Toxic if swallowed.
Acute toxicity Category 3 - Inhalation

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H331 Toxic if inhaled.
Acute toxicity Category 3 - Dermal
H311 Toxic in contact with skin.
Skin corrosion Category 1B
H314 Causes severe skin burns and eye damage.
Reproductive toxicity Category 1B
H360D May damage the unborn child.
Specific target organ toxicity - single exposure Category 1
H370 Causes damage to organs.
Specific target organ toxicity - single exposure Category 3 - Respiratory system
H335 May cause respiratory irritation.
Chronic aquatic toxicity Category 2
H411 Toxic to aquatic life with long lasting effects.

2.2. Label elements

REGULATION (EC) No 1272/2008

Hazard pictograms



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.
H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H360D May damage the unborn child.
H370 Causes damage to organs.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P284 In case of inadequate ventilation wear respiratory protection.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical

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advice/ attention.

Hazardous components : methanol
which must be listed on the label : Dodecyldimethylamine
1-pentanol
imidazole

Special labelling of certain products : Restricted to professional users.

2.3. Other hazards

Avoid exposure - obtain special instructions before use. Do not breathe vapours or spray mist.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
methanol	67-56-1 603-001-00-X 01-2119433307-44 200-659-6	Flam. Liq. 2; H225 Acute Tox. 3; H331 Acute Tox. 3; H311 Acute Tox. 3; H301 STOT SE 1; H370	>= 40 % - < 60 %	1*
1-pentanol	71-41-0 603-200-00-1 01-2119491284-34 200-752-1	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335	>= 15 % - < 25 %	1*
Dodecyldimethylamine	112-18-5 203-943-8	Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 10 % - < 20 %	1*
sulphur dioxide	7446-09-5 016-011-00-9 01-2119485028-34 231-195-2	Press. Gas Liquefied gas; H280 Acute Tox. 3; H331 Skin Corr. 1B; H314	>= 5 % - < 10 %	1*
imidazole	288-32-4	Acute Tox. 4; H302	>= 5 % - < 10 %	1*

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	613-319-00-0 01-2119485825-24 206-019-2	Skin Corr. 1C; H314 Eye Dam. 1; H318 Repr. 1B; H360D		
1H-Imidazole monohydriodide	68007-08-9 460-240-0	Acute Tox. 4; H302	< 5 %	1*

1* - For specific concentration limits see Annexes of 1272/2008

Remaining components of this product are non-hazardous and/or are present at concentrations below reportable limits.

Occupational Exposure Limit(s), if available, are listed in Section 8.
For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of 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 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:

Call a physician immediately. Do NOT induce vomiting. When swallowed, allow water to be drunk.

4.2. Most important symptoms and effects, both acute and delayed

May cause blindness.

Health injuries may be delayed., Toxic if swallowed, in contact with skin or if inhaled., Causes damage to organs.

4.3. Indication of any immediate medical attention and special treatment needed

no data available

See Section 11 for more detailed information on health effects and symptoms.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray
Foam
Carbon dioxide (CO₂)
Dry powder

Extinguishing media which shall not be used for safety reasons:
Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

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.
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

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Wear personal protective equipment. Unprotected persons must be kept away. Remove all sources of ignition. Ensure adequate ventilation.

6.2. Environmental precautions

Should not be released into the environment.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material.
Pick for disposal in tightly closed containers

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6.4. Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling:

Wear personal protective equipment. Use only in well-ventilated areas.

Advice on protection against fire and explosion:

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. The heavy vapours can overcome a considerable distance up to the source of ignition. Vapours may form explosive mixtures with air.

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.

7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions:

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

7.3. Specific end use(s)

no additional data available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits:

Components	Basis / Value type	Value / Form of exposure	Exceeding Factor	Remarks
methanol	EH40 WEL STEL	333 mg/m3 250 ppm		
methanol	EH40 WEL TWA	266 mg/m3 200 ppm		
methanol	EH40 WEL SKIN_DES			Can be absorbed through the skin.
methanol	EU ELV SKIN_DES			Can be absorbed through the skin.
methanol	EU ELV TWA	260 mg/m3 200 ppm		Indicative

STEL - Short term exposure limit
TWA - Time weighted average
SKIN_DES - Skin designation:

DNEL/ PNEC-Values

Component	End-use/impact	Exposure duration	Value	Exposure routes	Remarks
methanol	Consumers / Acute systemic effects		8mg/kg bw/d	Skin contact	
methanol	Workers / Acute systemic effects		40mg/kg bw/d	Skin contact	
methanol	Consumers / Long-term systemic effects		8mg/kg bw/d	Skin contact	
methanol	Workers / Long-term systemic effects		40mg/kg bw/d	Skin contact	
methanol	Consumers / Acute local effects		50 mg/m3	Inhalation	
methanol	Workers / Acute local		260 mg/m3	Inhalation	

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	effects				
methanol	Consumers / Acute systemic effects		50 mg/m3	Inhalation	
methanol	Workers / Acute systemic effects		260 mg/m3	Inhalation	
methanol	Consumers / Long-term local effects		50 mg/m3	Inhalation	
methanol	Workers / Long-term local effects		260 mg/m3	Inhalation	
methanol	Consumers / Long-term systemic effects		50 mg/m3	Inhalation	
methanol	Workers / Long-term systemic effects		260 mg/m3	Inhalation	
imidazole	Workers / Long-term systemic effects		10,6 mg/m3	Inhalation	
imidazole	Workers / Long-term systemic effects		1,5mg/kg bw/d	Skin contact	
sulphur dioxide	Workers / Long-term local effects		1,3 mg/m3	Inhalation	
sulphur dioxide	Workers / Acute local effects		2,7 mg/m3	Inhalation	
sulphur dioxide	Consumers / Long-term local effects		0,53 mg/m3	Inhalation	

Component	Environmental compartment / Value	Remarks
methanol	Sewage treatment plant: 100 mg/l	
methanol	Fresh water: 20,8 mg/l	
methanol	Marine water: 2,08 mg/l	

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methanol	Fresh water sediment: 77 mg/kg	
methanol	Marine sediment: 7,7 mg/kg	
methanol	Soil: 3,18 mg/kg	
imidazole	Fresh water: 0,13 mg/l	Assessment factor: 1000
imidazole	Marine sediment: 0,013 mg/l	Assessment factor: 10000
imidazole	Sewage treatment plant: 10 mg/l	Assessment factor: 100
imidazole	Fresh water sediment: 0,336 mg/kg dw	
imidazole	Marine sediment: 0,0425 mg/kg dw	
imidazole	Soil: 0,0425 mg/kg dw	
sulphur dioxide	:	no data available

8.2. Exposure controls

Occupational exposure controls

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.

Do not breathe vapours or spray mist.

Personal protective equipment

Respiratory protection:

In case of insufficient ventilation wear suitable respiratory equipment.

Recommended Filter type:

AX: Organic gas and low boiling vapour type

Hand protection:

Glove material: butyl-rubber

Break through time: > 480 min

Glove thickness: 0,7 mm

Butoject® 898

Gloves must be inspected prior to use.

Replace when worn.

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Remarks: Supplementary note: The specifications are based on information and tests from similar substances by analogy.
Due to varying conditions (e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.
Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer recommends to use the chemical protective glove in practice not longer than 50% of the recommended permeation time.
Manufacturer's directions for use should be observed because of great diversity of types .
Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

Eye protection:
Safety goggles

Skin and body protection:
Protective suit

Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	:	liquid
Colour	:	light yellow
Odour	:	aromatic
Melting point/range	:	no data available
Boiling point/boiling range	:	63 °C at 1.013 hPa
Flash point	:	14 °C
Vapour pressure	:	no data available
Density	:	0,930 g/cm ³ at 20 °C
Viscosity, dynamic	:	no data available
Viscosity, kinematic	:	no data available
pH	:	5,0 - 7,0 at 20 °C

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Water solubility : completely miscible

Partition coefficient: n-
octanol/water : no data available

Relative vapour density : no data available

Evaporation rate : no data available

9.2 Other Information

no additional data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended storage conditions.

10.2. Chemical stability

No decomposition if used as directed.

10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air.
Hazardous polymerisation does not occur.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

Oxidizing agents

10.6. 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

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

Toxic if swallowed.

The product has not been tested. The information is derived from the properties of the individual components.

Acute dermal toxicity:

Toxic in contact with skin.

The product has not been tested. The information is derived from the properties of the individual components.

Acute inhalation toxicity:

Acute toxicity estimate

Value: 1013 ppm

Exposure time: 4 h

Method: Calculation method

Skin irritation:

Result: Corrosive

The product has not been tested. The information is derived from the properties of the individual components.

Eye irritation:

no data available

Respiratory or skin sensitisation:

no data available

Repeated dose toxicity:

Note: no data available

Aspiration hazard:

no data available

Other information:

no data available

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish:

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product has not been tested. The information is derived from the properties of the individual components.

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Toxicity to aquatic plants:

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product has not been tested. The information is derived from the properties of the individual components.

Toxicity to aquatic invertebrates:

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

Biodegradability:

no data available

12.3. Bioaccumulative potential

no data available

12.4. Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment

no data available

12.6. Other adverse effects

Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product:

Dispose according to legal requirements.

Packaging:

Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

Further information:

Provisions relating to waste:
EC Directive 2006/12/EC; 2008/98/EEC
Regulation No. 1013/2006

For personal protection see section 8.

SECTION 14: Transport information

ADR/RID

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UN Number : 1992
Description of the goods : FLAMMABLE LIQUID, TOXIC, N.O.S.
(METHANOL, DODECYLDIMETHYLAMINE)
Class : 3
Packaging group : II
Classification Code : FT1
Hazard Identification Number : 336
ADR/RID-Labels : 3 (6.1)
Environmentally hazardous : yes

IATA

UN Number : 1992
Description of the goods : Flammable liquid, toxic, n.o.s.
(Methanol, Dodecyldimethylamine)
Class : 3
Packaging group : II
Hazard Labels : 3 (6.1)

IMDG

UN Number : 1992
Description of the goods : FLAMMABLE LIQUID, TOXIC, N.O.S.
(METHANOL, DODECYLDIMETHYLAMINE)
Class : 3
Packaging group : II
Hazard Labels : 3 (6.1)
EmS Number : F-E, S-D
Marine pollutant : yes
IMDG Code segregation group according chapter 3.1.4.4 :
NONE,

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Basis	Value	Remarks
Directive 2012/18/EC SEVESO III Listed in Regulation : H2: ACUTE TOXIC	Amount 1: 50.000 kg Amount 2: 200.000 kg	

Basis	Value	Remarks
Directive 2012/18/EC SEVESO III Listed in Regulation : H3: Specific target organ toxicity	Amount 1: 50.000 kg Amount 2: 200.000 kg	

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Basis	Value	Remarks
Directive 2012/18/EC SEVESO III Listed in Regulation : P5c: FLAMMABLE LIQUIDS	Amount 1: 5.000.000 kg Amount 2: 50.000.000 kg	

Poison Control Center

Country	Phone Number
Austria	+4314064343
Belgium	070 245245
Bulgaria	(+35929154233
Croatia	(+3851)23-48-342
Cyprus	no data available
Czech Republic	+420224919293; +420224915402
Denmark	82121212
Estonia	16662; (+372)6269390
Finland	9471977
France	+33(0)145425959
Greece	no data available
Hungary	(+36-80)201-199
Iceland	5432222
Ireland	+353(1)8092166
Italy	no data available
Germany	Berlin : 030/19240
	Bonn : 0228/19240
	Erfurt : 0361/730730
	Freiburg : 0761/19240
	Göttingen : 0551/19240
	Homburg : 06841/19240
	Mainz : 06131/19240
Munich : 089/19240	
Latvia	+37167042473

Country	Phone Number
Liechtenstein	no data available
Lithuania	+370532362052
Luxembourg	070245245; (+352)80002-5500
Malta	no data available
Netherlands	030-2748888
Norway	22591300
Poland	no data available
Portugal	808250143
Romania	no data available
Slovakia (NTIC)	+421 2 54 774 166
Slovenia	no data available
Spain	+34915620420
Sweden	112 (begär Giftinformation);+46104566786
Switzerland	145
United Kingdom	no data available

Other inventory information

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US. Toxic Substances Control Act

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

China. Inventory of Existing Chemical Substances

On the inventory, or 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@Honeywell.com.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Text of H-statements referred to under heading 3

Methanol	:	H225 H331 H311 H301 H370	Highly flammable liquid and vapour. Toxic if inhaled. Toxic in contact with skin. Toxic if swallowed. Causes damage to organs.
Pentan-1-ol	:	H226 H315 H318 H332 H335	Flammable liquid and vapour. Causes skin irritation. Causes serious eye damage. Harmful if inhaled. May cause respiratory irritation.
Dodecyldimethylamine	:	H302 H314 H410	Harmful if swallowed. Causes severe skin burns and eye damage. Very toxic to aquatic life with long lasting effects.
Sulphur dioxide	:	H280 H331 H314	Contains gas under pressure; may explode if heated. Toxic if inhaled. Causes severe skin burns and eye damage.
Imidazole	:	H302 H314 H360D	Harmful if swallowed. Causes severe skin burns and eye damage. May damage the unborn child.

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1H-Imidazole monohydriodide : H302 Harmful if swallowed.

Further information

All directives and regulations refer to amended versions.
Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations:

EC European Community
CAS Chemical Abstracts Service
DNEL Derived no effect level
PNEC Predicted no effect level
vPvB Very persistent and very biaccumulative substance
PBT Persistent, bioaccumulative und toxic substance

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.
