

HYDRANAL™ Coulomat A

34807-500ML

Version 2.4

Revision Date 10.04.2022

Supersedes 1

Flammable liquids Category 2
H225 Highly flammable liquid and vapour.
Acute toxicity Category 3 - Oral
H301 Toxic if swallowed.
Acute toxicity Category 3 - Inhalation
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.
Specific target organ toxicity - single exposure Category 3
H336 May cause drowsiness or dizziness.
Carcinogenicity Category 2
H351 Suspected of causing cancer.
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 - repeated exposure Category 1 - Inhalation
H372 Causes damage to organs through prolonged or repeated exposure if inhaled.

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.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H360D May damage the unborn child.
H370 Causes damage to organs.
H372 Causes damage to organs through
prolonged or repeated exposure if
inhaled.

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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 advice/ attention.

Hazardous components which must be listed on the label : methanol
trichloromethane; chloroform
imidazole
sulphur dioxide

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.	Classification 1272/2008	Concentration	Remarks
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	Index-No. REACH Registration Number EC-No.			
methanol	67-56-1 603-001-00-X 200-659-6	Flam. Liq. 2; H225 Acute Tox. 3; H331; Inhalation Acute Tox. 3; H311; Dermal Acute Tox. 3; H301; Oral STOT SE 1; H370	>= 30 % - < 60 %	STOT SE 2; H371:3 - < 10 % STOT SE 1; H370:>= 10 % STOT SE 1; H370:>= 10 % STOT SE 2; H371:3 - < 10 %
trichloromethane; chloroform	67-66-3 602-006-00-4 200-663-8	Acute Tox. 4; H302; Oral Acute Tox. 3; H331; Inhalation Skin Irrit. 2; H315 Eye Irrit. 2; H319 Carc. 2; H351 Repr. 2; H361d STOT RE 1; H372 STOT SE 3; H336	>= 30 % - < 60 %	
imidazole	288-32-4 613-319-00-0 206-019-2	Acute Tox. 4; H302; Oral Skin Corr. 1C; H314 Eye Dam. 1; H318 Repr. 1B; H360D	>= 10 % - < 20 %	
sulphur dioxide	7446-09-5 016-011-00-9 231-195-2	Press. Gas Liquefied gas; H280 Acute Tox. 3; H331; Inhalation Skin Corr. 1B; H314	>= 5 % - < 10 %	
1H-Imidazole monohydriodide	68007-08-9 460-240-0	Acute Tox. 4; H302; Oral	>= 1 % - <= 5 %	

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.

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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:

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. Call a physician immediately.

Ingestion:

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

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., Suspected of causing cancer., May damage the unborn child., May cause drowsiness or dizziness.

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

Treat symptomatically.

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)
Formaldehyde
Phosgene
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. Remove all sources of ignition. Ensure adequate ventilation. Wear personal protective equipment. Unprotected persons must be kept away.

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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

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 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.

Hygiene measures:

Take off all contaminated clothing immediately. Remove and wash contaminated clothing before re-use. When using do not eat or drink. Wash hands before breaks and at the end of workday.

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
methanol	EH40 WEL STEL	333 mg/m3 250 ppm	15 minutes	
methanol	EH40 WEL STEL	333 mg/m3 250 ppm	15 minutes	
trichloromethane; chloroform	EH40 WEL TWA	9,9 mg/m3 2 ppm		
trichloromethane; chloroform	EH40 WEL SKIN_DES			Can be absorbed through the skin.
trichloromethane; chloroform	EH40 WEL			Listed
trichloromethane; chloroform	EU ELV SKIN_DES			Can be absorbed through the skin.
trichloromethane; chloroform	EU ELV TWA	10 mg/m3 2 ppm		Indicative

STEL - Short term exposure limit

TWA - Time weighted average

SKIN_DES - Skin designation:

DNEL/ PNEC-Values

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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 effects		260 mg/m3	Inhalation	
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	

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methanol	Workers / Long-term systemic effects		260 mg/m3	Inhalation	
methanol	Consumers / Acute systemic effects		8mg/kg bw/d	Ingestion	
methanol	Consumers / Long-term systemic effects		8mg/kg bw/d	Ingestion	
trichloromethane; chloroform	Workers / Long-term systemic effects		2,5 mg/m3	Inhalation	
trichloromethane; chloroform	Workers / Acute systemic effects		333 mg/m3	Inhalation	
trichloromethane; chloroform	Workers / Long-term local effects		2,5 mg/m3	Inhalation	
trichloromethane; chloroform	Workers / Long-term systemic effects		0,94mg/kg bw/d	Skin contact	
trichloromethane; chloroform	Consumers / Long-term systemic effects		0,18 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		1,3 mg/m3	Inhalation	

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	local effects				
sulphur dioxide	Workers / Acute local effects		2,7 mg/m ³	Inhalation	
sulphur dioxide	Consumers / Long-term local effects		0,53 mg/m ³	Inhalation	

Component	Environmental compartment / Value	Remarks
methanol	Sewage treatment plant: 100 mg/l	
methanol	Fresh water: 20,8 mg/l	Assessment factor: 10
methanol	Marine water: 2,08 mg/l	Assessment factor: 100
methanol	Fresh water sediment: 77 mg/kg	
methanol	Marine sediment: 7,7 mg/kg	
methanol	Soil: 100 mg/kg	Assessment factor: 100
trichloromethane; chloroform	Fresh water: 0,146 mg/l	Assessment factor: 10
trichloromethane; chloroform	Marine water: 0,015 mg/l	Assessment factor: 100
trichloromethane; chloroform	Sewage treatment plant: 0,048 mg/l	Assessment factor: 10
trichloromethane; chloroform	Fresh water sediment: 0,45 mg/kg dw	Assessment factor: 10
trichloromethane; chloroform	Marine sediment: 0,09 mg/kg dw	Assessment factor: 50
trichloromethane; chloroform	Soil: 0,56 mg/kg dw	
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:

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		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.

Avoid exposure - obtain special instructions before use.

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:

Glove material: butyl-rubber

Butoject® 898

Gloves must be inspected prior to use.

Replace when worn.

Remarks: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.

Manufacturer's directions for use should be observed because of great diversity of types .

Eye protection:

Safety goggles

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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

Physical state	:	liquid
Colour	:	tan
Odour	:	characteristic
Melting point/range	:	No data available
Boiling point/boiling range	:	59 °C at 1.013 hPa
Upper explosion limit	:	13 %(V)
Lower explosion limit	:	5,5 %(V)
Flash point	:	11 °C
Decomposition temperature	:	No decomposition if used as directed.
pH	:	6
Viscosity, kinematic	:	No data available
Water solubility	:	completely miscible
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	985 hPa at 55 °C

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Density : 1,070 g/cm³
at 20 °C

Relative vapour density : No data available

9.2 Other Information

The physical data is that of the main component.

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Evaporation rate : No data available

Viscosity, dynamic : No 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

Hazardous polymerisation does not occur.

10.4. Conditions to avoid

Heat, flames and sparks.

Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Zinc
Oxidizing agents
Strong acids

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Acid chlorides
Acid anhydrides
Strong bases

10.6. Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as:

Carbon monoxide
Carbon dioxide (CO₂)
Formaldehyde
Phosgene
Nitrogen oxides (NO_x)
Sulphur oxides
Hydrogen halides

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:

Toxic by inhalation.

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

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:

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No data available

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.

Reproductive toxicity:

Remarks: May damage the unborn child.

Aspiration hazard:

No data available

11.2. Information on other hazards

Endocrine disrupting properties

No data available

Other information:

No data available

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish:

LC50

Species: Leuciscus idus (Golden orfe)

Value: > 1.000 mg/l

Exposure time: 96 h

Method: OECD

Toxicity to aquatic plants:

Not classified due to data which are conclusive although insufficient for classification. The product has not been tested. The information is derived from the properties of the individual components.

Toxicity to aquatic invertebrates:

Not classified due to data which are conclusive although insufficient for classification.

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12.2. Persistence and degradability

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. Endocrine disrupting properties

No data available

12.7. 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

14.1 UN number

ADR/RID:1992

IMDG:1992

IATA:1992

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14.2 UN proper shipping name

ADR/RID: FLAMMABLE LIQUID, TOXIC, N.O.S.(METHANOL, CHLOROFORM)

IMDG: FLAMMABLE LIQUID, TOXIC, N.O.S.(METHANOL, CHLOROFORM)

IATA: Flammable liquid, toxic, n.o.s.(Methanol, Chloroform)

14.3 Transport hazard class(es)

ADR/RID: 3 (6.1)

IMDG: 3 (6.1)

IATA: 3 (6.1)

14.4 Packaging group

ADR/RID: II

IMDG: II

IATA: II

14.5 Environmental hazards

ADR/RID: no

Marine pollutant: no

14.6 Special precautions for user

IMDG Code segregation group (SGG10) – Liquid halogenated hydrocarbons,

14.7 Maritime transport in bulk according to IMO instruments

No data available

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	Quantity: 50.000 kg Quantity: 200.000 kg	
Directive 2012/18/EC SEVESO III Listed in Regulation : P5c: FLAMMABLE LIQUIDS	Quantity: 5.000.000 kg Quantity: 50.000.000 kg	
Regulation (EC) No. 1907/2006, Annex XVII		This product contains an ingredient according to Annex XVII of the REACH Regulation 1907/2006/EC.
Substances of very high concern (SVHC)		This product does not contain substances of very high concern according to Regulation (EC) No Article 57 above the respective

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		regulatory 1907/2006 (REACH), concentration limit of ≥ 0.1 % (w/w).
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Poison Control Center

Country	Phone Number
Austria	+4314064343
Belgium	070 245245
Bulgaria	(+35929154233
Croatia	(+3851)23-48-342
Cyprus	+357 2240 5611
Czech Republic	+420224919293; +420224915402
Denmark	82121212
Estonia	16662; (+372)6269390
Finland	9471977
France	+33(0)145425959
Greece	+30 210 779 3777
Hungary	(+36-80)201-199
Iceland	5432222
Ireland	+353(1)8092166
Italy	0382 24444
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	

Country	Phone Number
Liechtenstein	+41 442515151
Lithuania	+370532362052
Luxembourg	070245245; (+352)80002-5500
Malta	+356 2395 2000
Netherlands	030-2748888
Norway	22591300
Poland	+48 42 25 38 400
Portugal	800250250
Romania	+40 21 318 3606
Slovakia (NTIC)	+421 2 54 774 166
Slovenia	+386 1 400 6051
Spain	+34915620420
Sweden	112 (begär Giftinformation);+46104566786
Switzerland	145
United Kingdom	(+44) 844 892 0111

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Latvia	+37167042473
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Other inventory information

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 Highly flammable liquid and vapour.
H331 Toxic if inhaled.
H311 Toxic in contact with skin.
H301 Toxic if swallowed.
H370 Causes damage to organs.

trichloromethane; chloroform : H302 Harmful if swallowed.
H331 Toxic if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
H361d Suspected of damaging the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure if swallowed and inhaled.
H336 May cause drowsiness or dizziness.

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imidazole	:	H302	Harmful if swallowed.
		H314	Causes severe skin burns and eye damage.
		H318	Causes serious eye damage.
		H360D	May damage the unborn child.
sulphur dioxide	:	H280	Contains gas under pressure; may explode if heated.
		H331	Toxic if inhaled.
		H314	Causes severe skin burns and eye damage.
1H-Imidazole monohydrate	:	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 bioaccumulative substance
PBT Persistent, bioaccumulative and 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.
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