

HYDRANAL™-Methanol Rapid**10248384**

Version 1.1

Issuing date 06/06/2017

Revision Date 03/02/2020

Print Date 11/20/2023

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name : HYDRANAL™-Methanol Rapid

Number : 000000020630

Recommended use of the chemical and restrictions on use : Laboratory chemicals

Manufacturer or supplier's details : Honeywell Specialty Chemicals Seelze GmbH
Wunstorfer Straße 40
Seelze, 30926

For further information, please contact: : 1-800-368-0050
+1-231-726-3171
(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
In Indonesia: 001-803-017-9114
: (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
Eye irritation, Category 2
Skin irritation, Category 2
Reproductive toxicity, Category 1B
Specific target organ toxicity - single exposure, Category 1,
Eyes, Nervous system, Systemic toxicity

GHS Label elements, including precautionary statements

Symbol(s)

:



Signal word

: Danger

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Hazard statements	: Highly flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. 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. Wear eye protection/ face protection. Response: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed: Call a POISON CENTER or doctor/ physician. Specific treatment (see supplemental first aid instructions on this label). If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: 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 cool. Store locked up. Disposal: Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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Chemical nature : Mixture

Chemical name	CAS-No.	Concentration
Methanol Methanol	67-56-1	>=90.00 - <=100.00 %
Sulphur dioxide Sulphur dioxide	7446-09-5	>=1.00 - <5.00 %
Imidazole Imidazole	288-32-4	>=0.10 - <1.00 %

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.
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.
- 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 : Flammable.

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firefighting

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
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.

6. ACCIDENTAL RELEASE MEASURES**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.

Environmental precautions

: Should not be released into the environment.

Methods and materials for containment and cleaning up

: Ventilate the area.
No sparking tools should be used.
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****Precautions for 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

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the source of ignition.
Vapours may form explosive mixtures with air.

Storage

Conditions for safe storage, including any incompatibilities : 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.

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

Components	CAS-No.	Value	Control parameters	Update	Basis
Methanol Methanol	67-56-1	PSD : Short Term Exposure Limit (STEL):	(250 ppm)	11 2011	ID NAB:Indonesia. OELs (Minister of Manpower and Transmigration Regulation No.5 of 2018 concerning Work Safety and Health, Annex III), as amended
		SKIN_DES : Skin designation:	Can be absorbed through the skin.	02 2005	ID NAB:Indonesia. OELs (Minister of Manpower and Transmigration Regulation No.5 of 2018 concerning Work Safety and Health, Annex III), as amended

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		NAB : Time Weighted Average (TWA):	(200 ppm)	11 2011	ID NAB:Indonesia. OELs (Minister of Manpower and Transmigration Regulation No.5 of 2018 concerning Work Safety and Health, Annex III), as amended
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Sulphur dioxide Sulphur dioxide	7446-09-5	PSD : Short Term Exposure Limit (STEL):	0.25 mg/m3	11 2011	ID NAB:Indonesia. OELs (Minister of Manpower and Transmigration Regulation No.5 of 2018 concerning Work Safety and Health, Annex III), as amended
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Appropriate engineering controls

Use with local exhaust ventilation.

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

Individual protection measures, such as 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

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- 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.
- 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 : characteristic
- pH : Note: neutral
- Melting point/range : Note: no data available
- Boiling point/boiling range : ca. 64 °C at 1,013 hPa
- Flash point : ca. 52 °F (11 °C)
- Evaporation rate : Note: no data available
- Lower explosion limit : ca. 5.5 %(V)
- Upper explosion limit : ca. 31 %(V)
- Vapour pressure :
Note: no data available
- Vapour density : Note: no data available

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Water solubility	: Note: completely miscible
Partition coefficient: n-octanol/water	: Pow: ca. log Pow: -0.71
Ignition temperature	: ca. 455 °C
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	: Vapours may form explosive mixture with air. Hazardous polymerisation does not occur.
Conditions to avoid	: Heat, flames and sparks. Protect from moisture.
Incompatible materials to avoid	: Oxidizing agents Acids Acid chlorides Acid anhydrides Alkali metals Zinc
Hazardous decomposition products	: In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Carbon dioxide (CO ₂) Formaldehyde nitrogen oxides (NO _x) Sulphur oxides

11. TOXICOLOGICAL INFORMATION

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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

: Note: no data available

Eye irritation

: Note: no data available

Repeated dose toxicity

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

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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.

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

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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*

Biodegradability
Imidazole

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

Other adverse effects

Additional ecological
information : no data available

13. DISPOSAL CONSIDERATIONS

Disposal methods : In accordance with local and national regulations.

14. TRANSPORT INFORMATION

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

Marine pollutant : no

15. REGULATORY INFORMATION**National regulatory information**

: No information available.

Other international regulations

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Notification status

US. Toxic Substances
Control Act : On TSCA Inventory

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

Canada. Canadian
Environmental Protection Act
(CEPA). Domestic
Substances List (DSL) : 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. The Toxic
Substances and Hazardous
and Nuclear Waste Control
Act : 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

16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 2*	2
Flammability	: 3	3
Physical Hazard	: 0	
Instability	:	0

* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

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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.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group