

HYDRANAL™ Methanol dry**34741-1L**

Version 1.2

Revision Date 03/02/2020

Print Date 05/12/2023

SECTION 1. IDENTIFICATION

Product name : HYDRANAL™ Methanol dry

Number : 000000020602

Product Use Description : Solvent

Manufacturer or supplier's details : Honeywell International Inc.
1953 South Harvey Street
Muskegon, MI 49442

For more information call : 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**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : liquid

Color : colourless

Odor : characteristic

Classification of the substance or mixture

Classification of the substance or mixture : Flammable liquids, Category 2
Specific target organ toxicity - single exposure, Category 1,
Eyes, Nervous system, Systemic toxicity

GHS Label elements, including precautionary statements

HYDRANAL™ Methanol dry**34741-1L**

Version 1.2

Revision Date 03/02/2020

Print Date 05/12/2023

Symbol(s)

:



Signal word

: Danger

Hazard statements

: Highly flammable liquid and vapour.
Causes damage to organs.

Precautionary statements

: **Prevention:**

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 protective gloves/protective clothing/eye protection/face protection.

Response:

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF exposed: Call a POISON CENTER or doctor/ physician.
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.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

HYDRANAL™ Methanol dry**34741-1L**

Version 1.2

Revision Date 03/02/2020

Print Date 05/12/2023

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Methanol	67-56-1	<=100.00 %

SECTION 4. FIRST AID MEASURES

- General advice : First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately. Show this safety data sheet to the doctor in attendance.
- Inhalation : Call a physician immediately. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present.
- Skin contact : After contact with skin, wash immediately with plenty of water. Call a physician immediately.
- Eye contact : Rinse thoroughly with plenty of water, also under the eyelids. Protect unharmed eye. Call a physician immediately.
- Ingestion : Immediately give large quantities of water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician immediately.

Notes to physician

- Most important symptoms/effects, acute and delayed : No information available.
- Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

HYDRANAL™ Methanol dry**34741-1L**

Version 1.2

Revision Date 03/02/2020

Print Date 05/12/2023

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Alcohol-resistant 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 : 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
- Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.
- Further information : Use water spray to cool unopened containers.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation.
Remove all sources of ignition.
Wear personal protective equipment. Unprotected persons must be kept away.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
Prevent product from entering drains.
Discharge into the environment must be avoided.
Do not flush into surface water or sanitary sewer system.
Do not allow run-off from fire fighting to enter drains or water courses.

HYDRANAL™ Methanol dry**34741-1L**

Version 1.2

Revision Date 03/02/2020

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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).

SECTION 7. HANDLING AND STORAGE**Handling**

Precautions for safe handling : Exhaust ventilation at the object is necessary.
Use explosion-proof equipment.
Wear suitable protective clothing and gloves.

Advice on protection against fire and explosion : The heavy vapours can overcome a considerable distance up to the source of ignition.
Use only in explosion-proof areas.
Keep product and empty container away from heat and sources of ignition.
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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 swallow.
Do not breathe vapours or spray mist.

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Version 1.2

Revision Date 03/02/2020

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- Engineering measures : Use with local exhaust ventilation.
Electrical equipment should be protected to the appropriate standard.
- Eye protection : Safety goggles
- Hand protection : Impervious butyl rubber gloves
Gloves must be inspected prior to use.
Replace when worn.
- Skin and body protection : Wear as appropriate:
Solvent-resistant apron
Flame retardant antistatic protective clothing.
If splashes are likely to occur, wear:
Protective suit
- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
- Hygiene measures : When using do not eat, drink or smoke.
Wash hands before breaks and immediately after handling the product.
Keep working clothes separately.
Do not swallow.
Do not breathe vapours or spray mist.
Avoid contact with skin, eyes and clothing.

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Methanol	67-56-1	SKIN_DES : Skin designation:	Can be absorbed through the skin.	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
Methanol	67-56-1	STEL : Short term exposure limit	(250 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended

SAFETY DATA SHEET

**HYDRANAL™ Methanol dry****34741-1L**

Version 1.2

Revision Date 03/02/2020

Print Date 05/12/2023

Methanol	67-56-1	TWA : Time weighted average	(200 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
Methanol	67-56-1	STEL : Short term exposure limit	325 mg/m3 (250 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Methanol	67-56-1	SKIN_DE S : Skin designati on:	Can be absorbed through the skin.	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Methanol	67-56-1	REL : Recomm ended exposure limit (REL):	260 mg/m3 (200 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Methanol	67-56-1	PEL : Permissi ble exposure limit	260 mg/m3 (200 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Methanol	67-56-1	SKIN_FI NAL : Skin designati on (Final Rule Limit applies):	Can be absorbed through the skin.	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended

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**HYDRANAL™ Methanol dry****34741-1L**

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Methanol	67-56-1	STEL : Short term exposure limit	325 mg/m3 (250 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Methanol	67-56-1	TWA : Time weighted average	260 mg/m3 (200 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid
Color	: colourless
Odor	: characteristic
Odor threshold	: Note: no data available
pH	: Note: Not applicable
Melting point/range	: -98 °C
Boiling point/boiling range	: 64 - 65 °C at 1,013 hPa
Flash point	: 52 °F (11 °C) Method: DIN 51755
Evaporation rate	: Note: no data available
Flammability	: Not applicable
Lower explosion limit	: 5.5 %(V)

HYDRANAL™ Methanol dry**34741-1L**

Version 1.2

Revision Date 03/02/2020

Print Date 05/12/2023

Upper explosion limit	: 50 %(V)
Vapor pressure	: 128 hPa at 20 °C(68 °F) 532 hPa at 50 °C(122 °F)
Vapor density	: Note: no data available
Density	: 0.79 g/cm3 at 20 °C
Water solubility	: Note: completely miscible
Partition coefficient: n-octanol/water	: log Pow: -0.71
Ignition temperature	: 455 °C Method: DIN 51794
Auto-ignition temperature	: Note: not auto-flammable
Decomposition temperature	: Note: At normal pressure may be distilled without decomposition.
Viscosity, dynamic	: ca. 0.55 mPa.s at 25 °C
Viscosity, kinematic	: Note: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: 32.04 g/mol

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
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HYDRANAL™ Methanol dry**34741-1L**

Version 1.2

Revision Date 03/02/2020

Print Date 05/12/2023

Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not occur.
Conditions to avoid	: Heat, flames and sparks. Keep away from direct sunlight.
Incompatible materials	: Oxidizing agents
Hazardous decomposition products	: In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Carbon dioxide (CO ₂) Formaldehyde

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50: 5,630 mg/kg Species: Rat
Acute inhalation toxicity	: LC50: > 80 mg/l Exposure time: 4 h Species: Rat
Acute dermal toxicity	: LD50: > 10,000 mg/kg Species: Rabbit
Skin irritation	: Species: Rabbit Result: No skin irritation
Eye irritation	: Species: Rabbit Result: No eye irritation

HYDRANAL™ Methanol dry**34741-1L**

Version 1.2

Revision Date 03/02/2020

Print Date 05/12/2023

Sensitisation	: Note: no data available
Repeated dose toxicity	: Species: Rat Application Route: Inhalation Note: Developmental Toxicity NOAEL (maternal toxicity) 10,000 ppm NOAEL (developmental toxicity) 5,000 ppm Skeletal and visceral malformations.
Genotoxicity in vitro	: Note: In vitro tests did not show mutagenic effects.
Genotoxicity in vivo	: Note: In vivo tests did not show mutagenic effects
Further information	: Note: When swallowed, there is a danger of blindness. Solvent vapours have a narcotic effect if inhaled in high concentrations. Causes damage to organs (eyes, nervous system, systemic toxicity)

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish	: LC50: 15,400 mg/l Exposure time: 96 h Species: Lepomis macrochirus (Bluegill sunfish)
Toxicity to daphnia and other aquatic invertebrates	: EC50: > 10,000 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
Toxicity to algae	: Note: no data available
Toxicity to bacteria	: EC50: ca. 71,000 mg/l Species: Bacteria

Elimination information (persistence and degradability)

HYDRANAL™ Methanol dry**34741-1L**

Version 1.2

Revision Date 03/02/2020

Print Date 05/12/2023

Bioaccumulation : Note: Bioaccumulation is unlikely.

Mobility : Note: no data available

Biodegradability : Result: Readily biodegradable.
Value: 99 %
Method: OECD Test Guideline 301D**Further information on ecology**

Biochemical Oxygen Demand (BOD) : Value: 1,120 mg/g

Chemical Oxygen Demand (COD) : Value: 1,500 mg/g

Additional ecological information : Do not flush into surface water or sanitary sewer system.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION**DOT**
UN/ID No. : UN 1230
Proper shipping name : METHANOL
Class : 3
Packing group : II
Hazard Labels : 3**IATA**
UN/ID No. : UN 1230
Description of the goods : METHANOL
Class : 3
Packaging group : II
Hazard Labels : 3 (6.1)
Packing instruction (cargo aircraft) : 364
Packing instruction : 352

HYDRANAL™ Methanol dry**34741-1L**

Version 1.2

Revision Date 03/02/2020

Print Date 05/12/2023

(passenger aircraft)
Packing instruction : Y341
(passenger aircraft)

IMDG UN/ID No. : UN 1230
Description of the goods : METHANOL
Class : 3
Packaging group : II
Hazard Labels : 3 (6.1)
EmS Number : F-E, S-D
Marine pollutant : no
IMDG Code segregation group according chapter 3.1.4.4 : NONE,

SECTION 15. REGULATORY INFORMATION**Inventories**

US. Toxic Substances : On TSCA Inventory
Control Act

Australia. Industrial : On the inventory, or in compliance with the inventory
Chemical (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. Existing Chemicals : On the inventory, or in compliance with the inventory
Inventory (KECI)

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
(IECSC)

New Zealand. Inventory of : On the inventory, or in compliance with the inventory

HYDRANAL™ Methanol dry**34741-1L**

Version 1.2

Revision Date 03/02/2020

Print Date 05/12/2023

Chemicals (NZIoC), as
published by ERMA New
Zealand

National regulatory information

**US. EPA CERCLA
Hazardous Substances (40
CFR 302)** : The following component(s) of this product is/are subject to
release reporting under 40 CFR 302 when release exceeds the
Reportable Quantity (RQ):

Reportable quantity: 5000 lbs


: Methanol 67-56-1

SARA 302 Components : No chemicals in this material are subject to the reporting
requirements of SARA Title III, Section 302.

SARA 313 Components : The following components are subject to reporting levels
established by SARA Title III, Section 313:
: Methanol 67-56-1

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard
Chronic Health Hazard

**CERCLA Reportable
Quantity** : 5000 lbs

California Prop. 65 :  **WARNING:** This product can expose you to chemicals,
listed below, known to the State of California to cause birth
defects or other reproductive harm. For more information go to
www.P65Warnings.ca.gov.
Methanol 67-56-1

Massachusetts RTK : Methanol 67-56-1

New Jersey RTK : Methanol 67-56-1

Pennsylvania RTK : Methanol 67-56-1

HYDRANAL™ Methanol dry**34741-1L**

Version 1.2

Revision Date 03/02/2020

Print Date 05/12/2023

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 2*	1
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

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