# Honeywell

### LP230-204 METHANOL LABORATORY PLUS

# 000000011383

Version 3.1 Revision Date 03/26/2015 Print Date 02/25/2016

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Methanol

MSDS Number : 000000011383

Product Use Description : Solvent

Manufacturer or supplier's

details

Honeywell International Inc.

115 Tabor Road

Morris Plains, NJ 07950-2546

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, clear

Color : colourless

Odor : slight alcohol-like

Classification of the substance or mixture

Classification of the : Flammable liquids, Category 2 substance or mixture : Eye irritation, Category 2A

Reproductive toxicity, Category 2

Specific target organ toxicity - single exposure, Category 1,

Eyes, Nervous system, Systemic toxicity

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### GHS Label elements, including precautionary statements

Symbol(s) :







Signal word : Danger

Hazard statements : Highly flammable liquid and vapour.

Causes serious eye irritation.

Suspected of damaging 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 protective gloves/ 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. If eve irritation persists: Get medical advice/ attention.

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.



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### 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.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : CH4O

Chemical nature : Substance

Chemical Name	CAS-No.	Concentration
Methanol	67-56-1	100.00 %

### **SECTION 4. FIRST AID MEASURES**

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 : Wash off immediately with plenty of water for at least 15

minutes. Take off contaminated clothing and shoes

immediately. Wash contaminated clothing before re-use. Call a

physician.

Eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Call a physician.

Ingestion : Call a physician immediately. Do NOT induce vomiting.

Immediate medical attention is required. Never give anything

by mouth to an unconscious person.

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Notes to physician

Treatment : Treat symptomatically.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Cool closed containers exposed to fire with water spray.

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.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear personal protective equipment.

Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Ensure adequate ventilation. Remove all sources of ignition.

Do not swallow.

Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

Prevent product from entering drains.

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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.

Methods for 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

Handling : Wear personal protective equipment.

Use only in well-ventilated areas. Keep container tightly closed.

Do not smoke. Do not swallow.

Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion

Keep away from fire, sparks and heated surfaces.

Take precautionary measures against static discharges.

Ensure all equipment is electrically grounded before beginning

transfer operations.

Use explosion-proof equipment.

Keep product and empty container away from heat and

sources of ignition.

No sparking tools should be used.

No smoking.

#### Storage

Requirements for storage areas and containers

Store in area designed for storage of flammable liquids.

Protect from physical damage.

Keep containers tightly closed in a dry, cool and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.



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Keep away from heat and sources of ignition.

Keep away from direct sunlight.

Store away from incompatible substances.

Container hazardous when empty.

Do not pressurize, cut, weld, braze, solder, drill, grind or

expose containers to heat or sources of ignition.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures : Ensure that eyewash stations and safety showers are close to

the workstation location.

Engineering measures : Use with local exhaust ventilation.

Prevent vapour buildup by providing adequate ventilation

during and after use.

Eye protection : Do not wear contact lenses.

Wear as appropriate:

Safety glasses with side-shields If splashes are likely to occur, wear:

Goggles or face shield, giving complete protection to eyes

Hand protection : Solvent-resistant 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 case of insufficient ventilation, wear suitable respiratory

equipment.

For rescue and maintenance work in storage tanks use self-

contained breathing apparatus.

Use NIOSH approved respiratory protection.

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.

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> Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. This material has an established AIHA ERPG exposure limit. The current list of ERPG exposure limits can be found at http://www.aiha.org/insideaiha/GuidelineDevelopment/ERPG/D ocuments/2011erpgweelhandbook\_table-only.pdf.

Exposure Guide	lines				
Components	CAS-No.	Value	Control parameters	Upda te	Basis
Methanol	67-56-1	TWA: time weighted average	(200 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
Methanol	67-56-1	STEL : Short term exposure limit	(250 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
Methanol	67-56-1	SKIN_DE S : Skin designati on:	Can be absorbed through the skin.	2008	ACGIH:US. ACGIH Threshold Limit Values
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
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
Methanol	67-56-1	STEL : Short term exposure limit	325 mg/m3 (250 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards

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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)
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)
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)
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)

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid, clear

Color : colourless

Odor : slight alcohol-like

pH : Note: Not applicable

Melting point/freezing point : Note: Not applicable

Boiling point/boiling range : 64.7 °C

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Flash point : 52 °F (11 °C)

Method: closed cup

Evaporation rate : ca. 5

Method: Compared to Butyl acetate.

Lower explosion limit : 6 %(V)

Upper explosion limit : 36 %(V)

Vapor pressure : 129.32 hPa

at 20 °C(68 °F)

Vapor density : 1.11 Note: (Air = 1.0)

Density : 0.792 g/cm3 at 20 °C

Water solubility : Note: completely soluble

Ignition temperature : 464 °C

Molecular weight : 32.04 g/mol

#### **SECTION 10. STABILITY AND REACTIVITY**

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Hazardous polymerisation does not occur.

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Conditions to avoid : Heat, flames and sparks.

Keep away from direct sunlight.

Incompatible materials to

avoid

: Strong oxidizing agents

Aluminium Magnesium

May attack many plastics, rubbers and coatings.

Hazardous decomposition

products

: In case of fire hazardous decomposition products may be

produced such as: Carbon monoxide Carbon dioxide (CO2)

Formaldehyde

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity : LD50: 5,628 mg/kg

Species: Rat

Acute inhalation toxicity : LC50: 64000 ppm

Exposure time: 4 h

Species: Rat

Acute dermal toxicity : LD50: 15,800 mg/kg

Species: Rabbit

Skin irritation : Species: Rabbit

Classification: irritating Exposure time: 24 h

Eye irritation : Species: rabbit eye

Classification: irritating

Repeated dose toxicity : Species: Rat

Application Route: Inhalation Test substance: Methanol

Note: Developmental Toxicity NOAEL (maternal toxicity)

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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

### **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity effects** 

Toxicity to fish : LC50: 29,400 mg/l

Exposure time: 96 h Species: Fathead minnow

Toxicity to daphnia and other

aquatic invertebrates

: LC50: 10,000 mg/l Exposure time: 24 h

Species: Daphnia (water flea)

Toxicity to bacteria : 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

Further information on ecology

Additional ecological

information

: Accumulation in aquatic organisms is unlikely.

The product is readily degradable in the environment.

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### **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 : 364

aircraft)

Packing instruction : 352

(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

### SECTION 15. REGULATORY INFORMATION

#### **Inventories**

US. Toxic Substances : On TSCA Inventory

Control Act

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Australia. Industrial

Chemical (Notification and

Assessment) Act

: On the inventory, or in compliance with the inventory

: All components of this product are on the Canadian DSL.

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)

Japan. Kashin-Hou Law

List

: On the inventory, or in compliance with the inventory

Korea. Toxic Chemical Control Law (TCCL) List : 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

: On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZloC), as published by ERMA New

Zealand

: On the inventory, or in compliance with the inventory

#### 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

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SARA 311/312 Hazards : Fire Hazard

Acute Health Hazard Chronic Health Hazard

**CERCLA Reportable** 

Quantity

: 5000 lbs

California Prop. 65 : WARNING: This product contains a chemical known to the

State of California to cause birth defects or other reproductive

harm.

Methanol 67-56-1

Massachusetts RTK : Methanol 67-56-1

New Jersey RTK : Methanol 67-56-1

Pennsylvania RTK : Methanol 67-56-1

WHMIS Classification : B2: Flammable liquid

D1B: Toxic Material Causing Immediate and Serious Toxic

**Effects** 

D2A: Very Toxic Material Causing Other Toxic Effects D2B: Toxic Material Causing Other Toxic Effects

This product has been classified according to the hazard criteria

of the CPR and the MSDS contains all of the information

required by the CPR.

### **SECTION 16. OTHER INFORMATION**

Health hazard : 2\* 1
Flammability : 3 3 3
Physical Hazard : 0

Instability : 0

<sup>\* -</sup> Chronic health hazard



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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