

# SAFETY DATA SHEET

**Honeywell**

Burdick & Jackson™

HGLC230AA-4 Methanol LC-MS 34966-4x4L

**000000011383**

Version 3.1

Revision Date 03/26/2015

Print Date 02/16/2017

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Methanol

MSDS Number : 000000011383

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, clear

Color : colourless

Odor : slight alcohol-like

### Classification of the substance or mixture

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

HGGLC230AA-4 Methanol LC-MS 34966-4x4L

000000011383

Version 3.1

Revision Date 03/26/2015

Print Date 02/16/2017

**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 eye 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.

# SAFETY DATA SHEET

**Honeywell**

Burdick & Jackson™

HGLC230AA-4 Methanol LC-MS 34966-4x4L

**000000011383**

Version 3.1

Revision Date 03/26/2015

Print Date 02/16/2017

### 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 : CH<sub>4</sub>O

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.

### Notes to physician

# SAFETY DATA SHEET

**Honeywell**

Burdick & Jackson™

HGLC230AA-4 Methanol LC-MS 34966-4x4L

**000000011383**

Version 3.1

Revision Date 03/26/2015

Print Date 02/16/2017

Treatment : Treat symptomatically.

## SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
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 (CO<sub>2</sub>)  
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.  
Discharge into the environment must be avoided.

# SAFETY DATA SHEET

**Honeywell**

Burdick & Jackson™

HGLC230AA-4 Methanol LC-MS 34966-4x4L

**000000011383**

Version 3.1

Revision Date 03/26/2015

Print Date 02/16/2017

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.  
Keep away from heat and sources of ignition.  
Keep away from direct sunlight.

# SAFETY DATA SHEET

**Honeywell**

Burdick & Jackson™

HGLC230AA-4 Methanol LC-MS 34966-4x4L

**00000011383**

Version 3.1

Revision Date 03/26/2015

Print Date 02/16/2017

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.  
Do not breathe vapours or spray mist.  
Avoid contact with skin, eyes and clothing.  
This material has an established AIHA ERPG exposure limit.

## SAFETY DATA SHEET

**Honeywell**

Burdick &amp; Jackson™

HGGLC230AA-4 Methanol LC-MS 34966-4x4L

**000000011383**

Version 3.1

Revision Date 03/26/2015

Print Date 02/16/2017

The current list of ERPG exposure limits can be found at  
[http://www.aiha.org/insideaiha/GuidelineDevelopment/ERPG/Docuements/2011erpgweelhandbook\\_table-only.pdf](http://www.aiha.org/insideaiha/GuidelineDevelopment/ERPG/Docuements/2011erpgweelhandbook_table-only.pdf).

**Exposure Guidelines**

Components	CAS-No.	Value	Control parameters	Update	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

## SAFETY DATA SHEET

**Honeywell**

Burdick &amp; Jackson™

HGLC230AA-4 Methanol LC-MS 34966-4x4L

**000000011383**

Version 3.1

Revision Date 03/26/2015

Print Date 02/16/2017

Methanol	67-56-1	PEL : Permissible exposure limit	260 mg/m <sup>3</sup> (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/m <sup>3</sup> (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/m <sup>3</sup> (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
Flash point	: 52 °F (11 °C)



# SAFETY DATA SHEET

**Honeywell**

Burdick & Jackson™

HGLC230AA-4 Methanol LC-MS 34966-4x4L

**000000011383**

Version 3.1

Revision Date 03/26/2015

Print Date 02/16/2017

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/cm<sup>3</sup> 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.

Conditions to avoid : Heat, flames and sparks.  
Keep away from direct sunlight.

# SAFETY DATA SHEET

**Honeywell**

Burdick & Jackson™

HGLC230AA-4 Methanol LC-MS 34966-4x4L

**000000011383**

Version 3.1

Revision Date 03/26/2015

Print Date 02/16/2017

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 (CO <sub>2</sub> ) 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) 10,000 ppm NOAEL (developmental toxicity) 5,000 ppm Skeletal and visceral malformations.

# SAFETY DATA SHEET

**Honeywell**

Burdick & Jackson™

HGLC230AA-4 Methanol LC-MS 34966-4x4L

**000000011383**

Version 3.1

Revision Date 03/26/2015

Print Date 02/16/2017

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.

## SECTION 13. DISPOSAL CONSIDERATIONS

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

# SAFETY DATA SHEET

**Honeywell**

Burdick & Jackson™

HGLC230AA-4 Methanol LC-MS 34966-4x4L

**000000011383**

Version 3.1

Revision Date 03/26/2015

Print Date 02/16/2017

## 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 (passenger aircraft) : 352  
Packing instruction (passenger aircraft) : Y341

**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 Control Act : On TSCA Inventory

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

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

# SAFETY DATA SHEET

**Honeywell**

Burdick & Jackson™

HGLC230AA-4 Methanol LC-MS 34966-4x4L

**000000011383**

Version 3.1

Revision Date 03/26/2015

Print Date 02/16/2017

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 (NZIoC), 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

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

**CERCLA Reportable  
Quantity** : 5000 lbs

# SAFETY DATA SHEET

**Honeywell**

Burdick & Jackson™

HGLC230AA-4 Methanol LC-MS 34966-4x4L

**000000011383**

Version 3.1

Revision Date 03/26/2015

Print Date 02/16/2017

**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

	<b>HMIS III</b>	<b>NFPA</b>
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

# SAFETY DATA SHEET

**Honeywell**

Burdick & Jackson™

HGLC230AA-4 Methanol LC-MS 34966-4x4L

**000000011383**

Version 3.1

Revision Date 03/26/2015

Print Date 02/16/2017

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.

Previous Issue Date: 03/19/2014

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group