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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Methanol_B&J MSDS Number : 000000011383

Product Use Description : Solvent

Company : Honeywell International Inc.

1953 South Harvey Street Muskegon, MI 49442

For more information call : 1-800-368-0050

(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : Medical: 1-800-498-5701

Transportation: 1-800-424-9300 or 703-527-3887

(24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Form : liquid, clear

Color : colourless

Odor : slight alcoholic

Hazard Summary : Flammable. In use, may form flammable/explosive vapour-air

mixture. May be fatal if swallowed. May be fatal if inhaled. May

be harmful if absorbed through skin. Irritating to eyes,

respiratory system and skin. Causes headache, drowsiness or other effects to the central nervous system. May cause blindness. The product may be absorbed through the skin. Repeated exposure may cause skin dryness or cracking. Do

not swallow. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. This product may cause adverse reproductive effects. Possible risk of harm to the unborn child. Avoid exposure to pregnant women especially.

Potential Health Effects

Skin : Irritating to skin.

The product may be absorbed through the skin.

May cause systemic poisoning with symptoms paralleling those

of inhalation.

Prolonged or repeated skin contact with liquid may cause defatting resulting in drying, redness and possible blistering.



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Eyes : Irritating to eyes.

Causes itching, burning, redness and tearing.

May cause blindness.

May cause irreversible eye damage.

Ingestion : May be fatal if swallowed.

Causes headache, drowsiness or other effects to the central

nervous system.

May cause blindness if swallowed.

Repeated or prolonged exposure to the substance can produce

liver damage.

Repeated or prolonged exposure to the substance can produce

kidney damage.

Inhalation : May be fatal if inhaled.

Causes respiratory tract irritation.

Causes headache, drowsiness or other effects to the central

nervous system.

Vapours may cause drowsiness and dizziness. Inhalation of high vapour concentrations can cause

CNS-depression and narcosis.

May cause blindness.

Repeated or prolonged exposure to the substance can produce

liver damage.

Repeated or prolonged exposure to the substance can produce

kidney damage.

Chronic Exposure : Causes damage to the kidneys/liver/eyes/brain/respiratory

system/central nervous system through prolonged or repeated

exposure.

Prolonged or repeated skin contact with liquid may cause defatting resulting in drying, redness and possible blistering.

This product may cause adverse reproductive effects.

Possible risk of harm to the unborn child.

Aggravated Medical

Condition

: Liver disorders

Eye disorders Skin disorders

Skill disolders

Neurological disorders Kidney disorders Do not use if pregnant.

Target Organs : Eyes

Skin Liver Kidney

Respiratory system Central nervous system Gastrointestinal tract

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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

Component CAS-No. Weight %

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

Treatment : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Flash point : 11 °C (52 °F)

closed cup

Ignition temperature : 464 °C (867 °F)

Lower explosion limit : 6 %(V)

Upper explosion limit : 36 %(V)



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Suitable extinguishing

media

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Extinguishing media which shall not be used for safety

reasons

Water may be ineffective.

Do not use a solid water stream as it may scatter and spread

fire.

Specific hazards during fire

fighting

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.

Cool closed containers exposed to fire with water spray.

Do not allow run-off from fire fighting to enter drains or water

courses.

In case of fire hazardous decomposition products may be

produced such as: Carbon monoxide Carbon dioxide (CO2)

Formaldehyde

Special protective

equipment for fire-fighters

In the event of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus and protective suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Immediately evacuate personnel to safe areas.

Keep people away from and upwind of spill/leak.

Wear personal protective equipment. Unprotected persons

must be kept away.

Ensure adequate ventilation. Remove all sources of ignition.

Vapors may travel to areas away from work site before

igniting/flashing back to vapor source.

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.

Discharge into the environment must be avoided.

Do not flush into surface water or sanitary sewer system.

Prevent product from entering drains.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Methods for cleaning up : Ventilate the area.

No sparking tools should be used. Use explosion-proof equipment.



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Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Handling

Handling : Handle with care.

Wear personal protective equipment. Use only in well-ventilated areas. Keep container tightly closed.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Keep away from fire, sparks and heated surfaces. Take precautionary measures against static discharges. Ensure all equipment is electrically grounded before beginning

transfer operations.

No sparking tools should be used. Use explosion-proof equipment.

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

Vapours may form explosive mixtures with air.

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the

occupational exposure limits.

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. Container hazardous when empty.

Keep product and empty container away from heat and sources

of ignition.

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

containers to heat or sources of ignition.

Take measures to prevent the build up of electrostatic charge. To avoid ignition of vapours by static electricity discharge, all

metal parts of the equipment must be grounded.

Electrical equipment should be protected to the appropriate

standard.

No sparking tools should be used. Use explosion-proof equipment.

No smoking.

Storage



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Requirements for storage areas and containers

Storage rooms must be properly ventilated.

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.

Store in area designed for storage of flammable liquids. Protect

from physical damage.

Store away from incompatible substances.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

the workstation location.

Do not swallow.

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

Engineering measures : Use with local exhaust ventilation.

Prevent vapor 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 and boots

Flame retardant antistatic protective clothing

If splashes are likely to occur, wear:

Protective suit

Respiratory protection : When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators. For rescue and maintenance work in storage tanks use

self-contained breathing apparatus.

Use NIOSH approved respiratory protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

When using, do not eat, drink or smoke.

Wash hands before breaks and immediately after handling the



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product.

Keep working clothes separately.

Do not swallow.

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

Exposure Guidelines

Methanol 67-56-1 ACGIH TWA 200 ppm

ACGIH STEL 250 ppm

Skin designation:

Can be absorbed through the skin.

NIOSH REL 200 ppm 260 mg/m3

NIOSH STEL 250 ppm 325 mg/m3

Skin designation:

Can be absorbed through the skin.

US CA OEL TWA PEL 200 ppm 260 mg/m3

US CA OEL Ceiling 1,000 ppm

US CA OEL STEL 250 ppm 325 mg/m3

Skin designation:

Can be absorbed through the skin.

OSHA Z1 PEL 200 ppm 260 mg/m3

OSHA Z1A TWA 200 ppm 260 mg/m3

OSHA Z1A STEL 250 ppm 325 mg/m3

Skin designation (Final Rule Limit applies): Can be absorbed through the skin.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid, clear

Color : colourless

Odor : slight alcoholic

Molecular Weight : 34.04 g/mol

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pΗ : not applicable

Melting point/range : not applicable

Boiling point/boiling range : 64.7 °C (148.5 °F)

: 129.32 hPa Vapor pressure

Relative vapour density : 1.11

(Air = 1.0)

Density : 0.792 g/cm3

Water solubility : completely soluble

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Heat, flames and sparks.

Keep away from direct sunlight.

: Strong oxidizing agents Materials to avoid

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

Hazardous reactions : Hazardous polymerisation does not occur.

Stable under recommended storage conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 rat

Dose: 5,628 mg/kg

Acute dermal toxicity : LD50 rabbit

Dose: 15,800 mg/kg

Acute inhalation toxicity : LC50 rat

> Dose: 64000 ppm Exposure time: 4 h

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Skin irritation : rabbit

irritating

Exposure time: 24 h

Eye irritation : rabbit eye

irritating

SECTION 12. ECOLOGICAL INFORMATION

Toxicity to fish : LC50

Species: Fathead minnow

Dose: 29,400 mg/l Exposure time: 96 h

Toxicity to daphnia and : LC50

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

Additional ecological

information

: Accumulation in aquatic organisms is unlikely.

The product is readily degradable in the environment. Do not flush into surface water or sanitary sewer system.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Information: Avoid contact of spilled material and runoff with soil and surface waterways. Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities. Dispose of according to all federal, state and local applicable regulations.

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

The information offered here is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

SECTION 14. TRANSPORT INFORMATION

DOT Proper shipping name : Methanol

UN-Number : 1230 Class : 3 Packing group : II

IATA UN Number : 1230

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> Description of the goods : Methanol

Class 3 Packaging group : 11 Hazard Label : 3 (6.1) Packing instruction (cargo : 307

aircraft)

Packing instruction : 305

(passenger aircraft)

Packing instruction : Y305

(passenger aircraft)

IMDG : UN 1230 Substance No.

> Description of the goods : Methanol

Class : 3 Packaging group : 11 Hazard Label : 3 (6.1) EmS Number : F-E Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

Inventories

EU. EINECS : On or in compliance with the inventory

US. Toxic Substances

Control Act

: On TSCA Inventory

Australia. Industrial

Chemical (Notification and

Assessment) Act

: On or in compliance with the inventory

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

Canada. Canadian **Environmental Protection** Act (CEPA). Domestic

Substances List (DSL). (Can. Gaz. Part II, Vol. 133)

Japan. Kashin-Hou Law List : On or in compliance with the inventory

Korea. Toxic Chemical

Control Law (TCCL) List

: On or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous

and Nuclear Waste Control

Act

: On or in compliance with the inventory

Chemical Substances

China. Inventory of Existing : On or in compliance with the inventory



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Switzerland. Consolidated

Inventory

: Listed

New Zealand. Interim Inventory of Chemicals (as published by ERMA new : Listed

. Zealand)

National regulatory information

SARA 313 Components : Methanol 67-56-1

SARA 311/312 Hazards : Fire Hazard

Acute Health Hazard Chronic Health Hazard

CERCLA Reportable

Quantity

: 5000 lbs

California Prop. 65 : This product does not contain any chemicals known to State of

California to cause cancer, birth, or any other reproductive

defects.

Massachusetts RTK : Methanol 67-56-1

New Jersey RTK : Methanol 67-56-1

Pennsylvania RTK : Methanol 67-56-1

WHMIS Classification : D1B

D2A D2B B2

SECTION 16. OTHER INFORMATION

HMIS III NFPA

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Health Hazard : 2* 1
Flammability : 3 3
Physical Hazard : 0
Instability : 0

Further information

* - Chronic health hazard