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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Methanol (BDH1135-19L, BDH1135-204L, BDH1135-1LP,

BDH1135-4LP, BDH1135-4LG)

MSDS Number : 000000011700

Product Use Description : Solvent

Manufacturer : Honeywell

1953 South Harvey Street Muskegon, MI 49442

Manufactured for : VWR International LLC

1310 Goshen Parkway West Chester, PA 19380

For more information call : (Monday-Friday, 8.00am-5:00pm)

1-800-932-5000

In case of emergency call : (24 hours/day, 7 days/week)

1-800-424-9300(USA Only)

For Transportation Emergencies: 1-800-424-9300 (CHEMTREC - Domestic) 1-613-966-6666 (CANUTEC - Canada)

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. May cause blindness. May cause irritation of the gastrointestinal tract. Can be absorbed through skin. Repeated exposure may cause skin dryness or cracking. This product may cause adverse reproductive effects. Possible

risk of harm to the unborn child.

Potential Health Effects



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Skin : Irritating to skin.

Can be absorbed through skin.

May be harmful if absorbed through 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.

Eyes : Irritating to eyes.

Causes itching, burning, redness and tearing.

May cause blindness.

Ingestion : Ingestion may cause gastrointestinal irritation, nausea,

vomiting and diarrhoea.

Causes headache, drowsiness or other effects to the central

nervous system.

May cause systemic poisoning with symptoms paralleling those

of inhalation.

Inhalation : Causes respiratory tract irritation.

Causes headache, drowsiness or other effects to the central

nervous system.

Inhalation of high vapour concentrations can cause

CNS-depression and narcosis.

May cause blindness.

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

Neurological disorders

Kidney disorders

Do not use if pregnant.

Target Organs : Eyes

Skin

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)

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Upper explosion limit : 36 %(V)

Suitable extinguishing

media

: Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Flammable.

Cool closed containers exposed to fire with water spray.

Extinguishing media which shall not be used for safety

reasons

Specific hazards during fire

fighting

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

IIIE

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 fire-fighters

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.

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.

Contain and collect spillage with non-combustible absorbent



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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 : 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.

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



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

the workstation location.

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

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. The current list of ERPG exposure limits can be found at http://www.aiha.org/1documents/Committees/ERP-erpglevels.p

df.

Exposure Guidelines

Methanol 67-56-1 CAD AB OEL TWA 200 ppm 262 mg/m3

CAD AB OEL STEL 250 ppm 328 mg/m3

Skin designation:



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Can be absorbed through the skin.

CAD BC OEL TWA 200 ppm

CAD BC OEL STEL 250 ppm

Skin designation:

Can be absorbed through the skin.

CAD ON OEL TWA 200 ppm 260 mg/m3

CAD ON OEL STEL 250 ppm 325 mg/m3

Skin designation:

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

pH : not applicable

Melting point/range : not applicable

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

Vapor pressure : 129.32 hPa

at 20 °C (68 °F)

Relative vapour density : 1.11

(Air = 1.0)

Density : 0.792 g/cm3

at 20 °C (68 °F)

Water solubility : completely soluble



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SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Heat, flames and sparks.

Keep away from direct sunlight.

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

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

Skin irritation : rabbit

irritating

Exposure time: 24 h

Eye irritation : rabbit eye

irritating

SECTION 12. ECOLOGICAL INFORMATION



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Toxicity to fish : LC50

Species: Fathead minnow

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

Toxicity to daphnia and : LC50

other aquatic invertebrates. Species: Daphnia

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

Toxicity to bacteria : EC50

Species: Photobacterium phosphoreum

Dose: 43,000 mg/l Exposure time: 5 min

Toxicity to bacteria : EC50

Species: Photobacterium phosphoreum

Dose: 40,000 mg/l Exposure time: 15 min

Toxicity to bacteria : EC50

Species: Photobacterium phosphoreum

Dose: 39,000 mg/l Exposure time: 25 min

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

SECTION 14. TRANSPORT INFORMATION

TDG UN-Number : 1230

Proper shipping name : Methanol

Class 3 Packing group II

IATA UN Number : 1230

Description of the goods : Methanol

Class :



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

aircraft)

Packing instruction : 305

(passenger aircraft)

Packing instruction : Y305

(passenger aircraft)

IMDG Substance No. : UN 1230

: Methanol Description of the goods

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

SECTION 15. REGULATORY INFORMATION

Inventories

EU. EINECS : On the inventory, or in compliance with the inventory

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). (Can. Gaz. Part II, Vol. 133) : All components of this product are on the Canadian DSL list.

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

: On the inventory, or in compliance with the inventory

Act

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

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Chemical Substances

CH INV - Switzerland : On the inventory, or in compliance with the inventory

NZIOC - New Zealand : On the inventory, or in compliance with the inventory

National regulatory information

WHMIS Classification : B2

D1B D2A D2B

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.

WHMIS

Components : Methanol 67-56-1

NPRI

Components : Methanol 67-56-1

SECTION 16. OTHER INFORMATION

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

Further information

* - Chronic health hazard