

**Head Office:** 311, A-Wing, Antophill Warehousing Complex, Salt Pan Road, Wadala East, Mumbai - 400037, India.

Factory and Customs Bonded Warehouse at Kandla Port : Plot No. 586 & 587

Kandla Special Economic Zone, Gandhidham, India.

# www.hwatsichem.com +91 9869056097 | +91 9167110151 bharat@hwatsichem.com hwatsi.cpltd@gmail.com

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product: Methanol

Product Number(s): PF032, PF033, PF034

CAS#: 67-56-1

Synonyms: Wood alcohol, Carbinol

Manufacturer: HWATSI CHEMICAL PRIVATE LIMITED

Plot No. 587/586, Kandla Special Economic

Zone ,Gandhidham, Kutch 370230

H.O: Antop Hill Warehousing Complex, Ú - 332 &

311, Wadala (E), Mumbai - 400037.

Emergency Number: TEL NO. +91 9821727511/+91 9869056097

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### 2. HAZARDS IDENTIFICATION

Emergency Overview: DANGER! POISON! FLAMMABLE LIQUID AND VAPOR. MAY BE FATAL OR CAUSE

BLINDNESS IF SWALLOWED. CANNOT BE MADE NONPOISONOUS. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. CAUSES IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. HIGH VAPOR CONCENTRATIONS MAY CAUSE DROWSINESS. MAY CAUSE HARM TO THE UNBORN CHILD. PROLONGED

EXPOSURE MAY CAUSE CHRONIC EFFECTS.

Safety Ratings: Health: 3, Severe Reactivity: 1, Slight

Flammability: 3, Severe Contact: 3, Severe

OSHA Regulatory Status: This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910,1200.

**Potential Acute Health Effects:** 

Routes of Exposure: Inhalation, ingestion, skin contact, eye contact

Inhalation: May cause irritation of respiratory tract. Toxic effects exerted upon nervous system,

particularly the optic nerve. Once absorbed into the body, it is very slowly eliminated. Symptoms of overexposure may include headache, drowsiness, nausea, vomiting, blurred vision, blindness, coma and death. A person may get better but then worse again up to 30

hours later.

Ingestion: Poison - may be fatal if swallowed. Even small amounts (30-250 ml methanol) may be fatal.

Symptoms are stomach ache, nausea, vomiting, dullness, visual disorder and blindness.



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**Skin Contact:** Causes irritation. Prolonged or repeated contact with skin may cause redness, itching,

irritation and eczema/chapping. Skin absorption can occur, symptoms may parallel

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ingestion exposure.

**Eye Contact:** Causes irritation.

Target Organs: Skin, central nervous system, liver, reproductive system, eyes

**Chronic Health Effects:** In serious cases absorption of methanol in the body may lead to damage to the eyesight.

May cause adverse reproductive effects - such as birth defects, miscarriages, or infertility based on animal data. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Frequent or prolonged contact may defat and dry the skin, leading to discomfort

and dermatitis.

Potential Environmental

Effects:

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or

damaging effect on the environment.

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

ComponentsCAS#FormulaFormulaWeightHazardousWeightMethanol67-56-1CH4O32.04Yes>99.85

#### 4. FIRST AID MEASURES

First Aid Procedures:

Inhalation: Remove to fresh air. If breathing is difficult, administer oxygen. If the victim is not

breathing, provide artificial respiration. Get medical attention.

**Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs,

keep head low so that vomit does not enter lungs. Never give anything by mouth to an

unconscious person. GET MEDICAL ATTENTION IMMEDIATELY.

**Skin Contact:** Wash affected area with plenty of water for at least 15 minutes. Remove contaminated

clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.

Eye Contact: Check for and remove contact lenses. Immediately flush eyes with gentle but large stream

of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical

attention.

General Advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the

label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in

attendance.

Notes to Physician: Treat symptomatically. Symptoms may be delayed.

### 5. FIRE FIGHTING MEASURES



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NFPA Ratings: Health: 2 Flammability: 3 Reactivity: 0

Flammable Properties: HIGHLY FLAMMABLE! Vapors may cause a flash fire or ignite explosively. Vapors may

travel considerable distance to a source of ignition and flash back. Heat may cause sealed

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containers to explode.

**Flash Point:** 11° C (53.6° F)

**Auto-ignition Temp:** 464° C (867° F)

Flammable Limits in Lower Explosion Limit: 6%
Air (% by volume): Upper Explosion Limit 36.5%

Suitable Extinguishing Media: Water spray, dry powder, alcohol resistant foam, carbon dioxide

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream as it may scatter and spread fire.

**Hazardous Combustion** 

**Products:** 

Carbon monoxide, carbon dioxide

Specific Hazards: Can be ignited easily by heat, sparks, or flame and burns vigorously. Material may burn

with an invisible flame. Sealed containers may explode when heated or involved in fire. Material is sensitive to static discharge. Vapor from the solvent may accumulate in

container headspace resulting in flammability hazard.

**Special Protective Equipment** 

For Firefighters:

As in any fire, wear MSHA/NIOSH approved (or equivalent) self-contained positive pressure

or pressure-demand breathing apparatus and full protective gear.

Specific Methods: Use water spray to cool unopened containers. Move containers from fire area if you can do

so without risk. Some of these materials, if spilled, may evaporate leaving a flammable

residue. In the event of fire and/or explosion do not breathe fumes.

### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ventilate area of leak or spill. Isolate hazard area and keep unnecessary and unprotected

personnel away from the area of the leak or spill. Keep upwind. Keep out of low areas. Wear appropriate personal protective equipment as specified in the Exposure Control and Personal Protection Section 8. Avoid contact with eyes, skin, and clothing. Pay attention to

flashback. Take precautionary measures against static discharges.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid

discharge into drains, water courses or onto the ground. In case of large spill, dike if

needed.

**Methods for Containment:** Eliminate all sources of ignition. Stop the flow of material, if this is without risk. Prevent

entry into waterways, sewer, basements or confined areas. Dike the spilled material, where this is possible. In case of large spill, water spray or vapor suppressing foam may be used

to reduce vapors, but may not prevent ignition in closed spaces.



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Methods for Cleaning Up:

Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Absorb spill with an inert material (e.g. vermiculite, dry sand, earth, cloth, fleece), and place in a suitable container for reclamation or disposal. Do not use combustible materials, such as sawdust. Clean contaminated surface thoroughly. Never return spills in original containers for re-use. Clean up in accordance with all applicable regulations.

### 7. HANDLING AND STORAGE

Handling:

Do not handle or open near flame, sources of heat, or sources of ignition. Wear personal protective equipment (see section 8). Use only in well-ventilated areas. Provide sufficient air exchange and/or exhaust in work rooms. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Do not ingest. When using, do not smoke. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquids).

Observe all warnings and precautions listed for the product

Storage: Store in a cool, dry, ventilated area. Store in a segregated and approved area away from

> flame, sources of ignition, heat, and incompatible materials. Store in original container. Keep containers tightly closed and upright. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining

to the storage, handling, dispensing, and disposal of flammable liquids.

### 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

**Exposure Limits:** ACGIH: TWA: 200 ppm

> STEL: 250 ppm BEL: 15 mg/L

OSHA: PEL: 200 ppm

260 mg/m<sup>3</sup>

**Engineering Controls:** Ensure adequate ventilation. Ventilation rates should be matched to conditions. If

applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Explosion proof exhaust

ventilation should be used.

**Personal Protective Equipment:** 

**Eye/Face Protection:** Wear goggles or safety glasses with side shields and a face shield.

**Skin Protection:** Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical

resistant gloves.

Respiratory Protection: Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled

release, exposure levels are not known, or any other circumstances where air-purifying

respirators may not provide adequate protection.

**General Hygiene** Considerations:

Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and

before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:LiquidAppearance:TransparentColor:Colorless

Odor: Alcoholic, Pungent characteristic

Molecular Formula: CH<sub>4</sub>O Molecular Weight: 32.04

**pH:** No information found

Specific Gravity: 0.79

Freezing/Melting Point:-97.8 °C (-144 °F)Boiling Point:64.7 °C (149 °F)Flash Point:11 °C (53.6 °F)Auto Ignition Temperature:464 °C (867 °F)

Flammable Limits in Air

(% by Volume):

**Upper:** 36.5% **Lower:** 6%

**Solubility:** Miscible with water **Vapor Pressure:** 16.9 kPa at 25 °C

Vapor Density:1.1Percent Volatile:100%Odor threshold (ppm):100Evaporation Rate:5.9 BuAc

**Partition Coefficient** 

(n-octanol/water): -0.77

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions.

Conditions to Avoid: Heat, flames, sparks, ignition sources, incompatibles.

Incompatible Materials: Oxidizing agents, metals, acids, alkali metals

**Hazardous Decomposition** 

**Products:** 

Carbon dioxide, carbon monoxide, irritants, toxic gas, formaldehyde

**Possibility of Hazardous** 

Reactions:

Can react vigorously, violently or explosively with the incompatible materials listed above.

Hazardous Polymerization: Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Toxicological Data:** Oral Rat LD50: 5628 mg/kg

Inhalation Rat LC50: 87.5 mg/L 6 H Dermal Rabbit LD50: 15800 mg/kg



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Acute Effects: May be fatal or cause blindness if swallowed. Cannot be made nonpoisonous. Harmful if

inhaled or absorbed through skin.

Local Effects: Causes eye irritation. Prolonged or repeated skin contact may cause drying, cracking, or

irritation. High vapor concentrations may cause drowsiness and irritation of the eyes or

respiratory tract.

Sensitization: Not a skin sensitizer.

Chronic Effects: May cause central nervous system effects. In serious cases methanol absorption into the

body may lead to damage to eyesight. Prolonged or repeated skin contact may cause

dermatitis and defatting, dryness, and cracking of the skin.

Carcinogenic Effects: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**Skin Corrosion/Irritation:** Irritation, defatting, drying, and cracking of skin.

**Epidemiology:** No epidemiological data is available for this product.

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Neurological Effects: High vapor/aerosol concentrations (attainable only at elevated temperatures) may cause

central nervous system effects such as dizziness, drowsiness or headaches. May cause

central and or peripheral nervous system damage.

**Reproductive Effects:** May cause adverse reproductive effects. Suspected of damaging fertility.

**Teratogenic Effects:** May cause birth defects (teratogenic effects) based on animal test data.

Target Organs and Symptoms: Skin, central nervous system, nervous system, liver, kidneys, eyes, optic nerve. Irritation,

drowsiness, dizziness, blindness, cough, shortness of breath, unconsciousness.

### 12. ECOLOGICAL INFORMATION

Ecotoxicological Data: EC50 Water flea (Daphnia magna): > 10000 mg/L 48 H

LC50 Fathead minnow (Pimephales promelas): > 100 mg/L 96 H

**Ecotoxicity:** This product is not expected to be harmful to aquatic organisms.

**Environmental Effects:** This product is not expected to be harmful to the environment.

**Persistence and Degradability:** Expected to be readily biodegradable.

Partition Coefficient (n-octanol/water):

-0.77



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### 13. DISPOSAL INFORMATION

**Disposal Instructions:** All wastes must be handled in accordance with local, state and federal regulations.

Contaminated Packaging: Since emptied containers retain product residue, follow label warnings even after container

is emptied. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or

near this container. Offer rinsed packaging material to local recycling facilities.

Waste Codes: U154 (US RCRA Hazardous Waste U List)

### 14. TRANSPORT INFORMATION

DOT:

UN Number: UN1230

Proper Shipping Name: Methanol

Hazard Class: 3 / sub class: 6.1

Packaging Group:

ERG Number: 131

## 15. REGULATORY INFORMATION

**U.S. Federal Regulations:** 

OSHA: This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Inventory: Methanol

U.S. EPCRA (SARA Title III):

Sections 311/312: Hazard Categories List (Yes/No)

Section 311 – Hazardous Chemical Yes
Immediate Hazard Yes
Delayed Hazard Yes
Fire Hazard Yes
Pressure Hazard No
Reactivity Hazard No

Section 313: Toxic Chemical or Category: Methanol

De Minimis Concentration: 1.0%

CERCLA: Methanol: 5000 lbs



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International Inventories:	Country(s) or Region	Inventory Name	On Inventory (Yes/No)*
	Australia	Australian Inventory of Chemical	Yes
		Substances (AICS)	
	Canada	Domestic Substances List (DSL)	Yes
	Canada	Non-Domestic Substances List (NDSL)	No
	China	Inventory of Existing Chemical	Yes
		Substances in China (IECSC)	
	Europe	European Inventory of Existing Commercial	cial Yes
		Chemical Substances (EINECS)	
	Europe	European List of Notified Chemical	No
	-	Substances (ELINCS)	
	Japan	Inventory of Existing and New Chemical	Yes
		Substances (ENCS)	
	Korea	Existing Chemicals List (ECL)	Yes
	New Zealand	New Zealand Inventory	Yes
	Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

<sup>\*</sup>A "Yes" indicates that the listed component(s) of this product comply with the inventory requirements administered by the governing country(s)

### 16. OTHER INFORMATION

Product Use: Laboratory and/or field reagent

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belief that it is reliable but assumes no responsibility for its completeness or accuracy. The hysical properties reported in this MSDS are obtained from the literature and do not

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Reason for Revision: Not applicable