### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Reference number: 00196

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Substance

Trade name : METHANOL AR/ACS

EC Index-No. : 603-001-00-X EC-No. : 200-659-6 CAS-No : 67-56-1 Product code : B-01694 Type of product Solvents Formula CH4O

Chemical structure

Carbinol, Hydroxymethane, Methyl alcohol, Methyl hydroxide, Methylic alcohol, Methylol, / **Synonyms** 

Methylene hydrate, Wood alcohol, Wood naphtha, Wood spirit

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only Use of the substance/mixture

: Laboratory chemicals

Manufacture of substances

Solvents

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

**Bio-Chem Chemicals** 

5455, Nicholson Road Science Market, Ambala Cantt. 133001 Haryana (India)

+91-82952 41953

info@biofinechemical.com - www.biofinechemical.com

### 1.4. Emergency telephone number

: +91 99921 51495 (10.00am - 06.30pm) (Office Hours) Emergency number

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2 H225 Acute toxicity (oral), Category 3 H301 Acute toxicity (dermal), Category 3 H311 Acute toxicity (inhal.), Category 3 H331 Specific target organ toxicity - single exposure, Category 1 H370

Full text of H-statements: see section 16

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#### Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. Causes damage to organs. Toxic in contact with skin. Toxic if inhaled. Toxic if swallowed.

#### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP) : Danger

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour.

H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled.

H370 - Causes damage to organs.

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P260 - Do not breathe dust, gas, mist, fume, vapours, spray.

P280 - Wear protective clothing, eye protection, face protection, protective gloves. P301+P310 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER.

P311 - Call doctor, a POISON CENTER.

#### 2.3. Other hazards

No additional information available

### **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

 Substance type
 : Mono-constituent

 Name
 : METHANOL

 CAS-No.
 : 67-56-1

 EC-No.
 : 200-659-6

 EC Index-No.
 : 603-001-00-X

#### 3.2. Mixtures

Not applicable

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Call a POISON CENTER/doctor. Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air

and keep comfortable for breathing. Call a doctor.

First-aid measures after skin contact : Wash with plenty of water/... Wash contaminated clothing before reuse. Get immediate

medical advice/attention. Rinse skin with water/shower. Take off immediately all

contaminated  ${\it cl}$  othing.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with

water for several minutes.

First-aid measures after ingestion : Rinse mouth. Obtain emergency medical attention. Immediately call a POISON

CENTER/doctor. Call a physician immediately.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Causes damage to organs.

Symptoms/effects after skin contact : Repeated exposure to this material can result in absorption through skin causing significant

health hazard. Toxic in contact with skin.

Symptoms/effects after ingestion : Toxic if swallowed. Swallowing a small quantity of this material will result in serious health

hazard.

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#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Foam. Water spray. Dry powder. Unsuitable extinguishing media : Do not use extinguishing media containing water.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

#### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames.

No smoking.

### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and

no smoking. Do not breathe dust, fume, gas, mist, spray, vapours. Avoid contact with skin,

eyes and clothing.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Use personal protective

equipment as required. For further information refer to section 8: "Exposure

controls/personal protection".

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. On land, sweep or shovel into suitable

containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

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Precautions for safe handling

: Use only non-sparking tools. Do not breathe vapours. Keep away from sources of ignition - No smoking. Provide good ventilation in process area to prevent formation of vapour. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Do not breathe dust, fume, gas, mist, spray, vapours. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area.

Hygiene measures

Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.

Storage conditions

: Keep in fireproof place. Keep container tightly closed. Store in a well-ventilated place. Keep

cool. Store locked up.

Incompatible materials

: Heat sources.

### 7.3. Specific end use(s)

No additional information available

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### 8.1.1. National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

### Personal protective equipment symbol(s):







#### 8.2.2.1. Eye and face protection

#### Eye protection:

Safety glasses

### 8.2.2.2. Skin protection

### Hand protection:

Protective gloves

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#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

Wear appropriate mask. [In case of inadequate ventilation] wear respiratory protection.

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Clear liquid.
Molecular mass : 32.04 g/mol
Colour : Colourless.

Odour : alcohol like. mild odour.

Odour threshold : 100 ppm pH : Neutral

Relative evaporation rate (butylacetate=1) : No data available Melting point : Not applicable Freezing point : -98 °C Boiling point : 64.7 °C Flash point : 11 °C

Auto-ignition temperature : 455 °C at 1.013 hPa - DIN 51794

Decomposition temperature : No data available

Flammability (solid, gas) : Highly flammable liquid and vapour.

Highly flammable liquid and vapour.

Vapour pressure : 128 hPa at 20°C
Relative vapour density at 20 °C : No data available
Relative density : No data available
Density : 0.79 – 0.793 g/cm³
Relative gas density : 1.1 (Air = 1)

Solubility : Water: Completely miscible

Partition coefficient n-octanol/water (Log Pow) : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive properties : No data available Oxidising properties : No data available Lower explosive limit (LEL) : 5.5 vol %

### 9.2. Other information

Refractive index : 1.328 – 1.331 (20°C, 589 nm)

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Highly flammable liquid and vapour.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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#### 10.4. Conditions to avoid

Open flame. Heat. Overheating. Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

May release flammable gases.

### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Toxic if swallowed.

Acute toxicity (dermal) : Toxic in contact with skin.

Acute toxicity (inhalation) : Toxic if inhaled.

Skin corrosion/irritation : Not classified pH: Neutral

Serious eye damage/irritation : Not classified pH: Neutral

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified

STOT-single exposure : Causes damage to organs.

STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

Potential adverse human health effects and : Toxic if swallowed, Toxic in contact with skin.

symptoms

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified: Not classified

### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

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### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Dispose of contents/container to a licensed hazardous-waste disposal contractor or

collection site except for empty clean containers which can be disposed of as non-

hazardous waste.

Additional information : Handle empty containers with care because residual vapours are flammable. Flammable

vapours may accumulate in the container.

Ecology - waste materials : Hazardous waste due to toxicity.

### **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

#### 14.1. UN number

 UN-No. (ADR)
 : UN 1230

 UN-No. (IMDG)
 : UN 1230

 UN-No. (IATA)
 : UN 1230

 UN-No. (ADN)
 : UN 1230

 UN-No. (RID)
 : UN 1230

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : METHANOL
Proper Shipping Name (IMDG) : METHANOL
Proper Shipping Name (IATA) : Methanol
Proper Shipping Name (ADN) : METHANOL
Proper Shipping Name (RID) : METHANOL

Transport document description (ADR)

: UN 1230 METHANOL, 3 (6.1), II, (D/E)

Transport document description (IMDG)

: UN 1230 METHANOL, 3 (6.1), II (12°C c.c.)

Transport document description (IATA)

: UN 1230 Methanol, 3 (6.1), II

Transport document description (ADN)

: UN 1230 METHANOL, 3 (6.1), II

Transport document description (RID)

: UN 1230 METHANOL, 3 (6.1), II

### 14.3. Transport hazard class(es)

### ADR

Transport hazard class(es) (ADR) : 3 (6.1)
Danger labels (ADR) : 3, 6.1



#### **IMDG**

Transport hazard class(es) (IMDG) : 3 (6.1)
Danger labels (IMDG) : 3, 6.1



#### IATA

Transport hazard class(es) (IATA) : 3 (6.1)
Danger labels (IATA) : 3, 6.1

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#### ADN

Transport hazard class(es) (ADN) : 3 (6.1) Danger labels (ADN) : 3, 6.1



#### RID

Transport hazard class(es) (RID) : 3 (6.1) Danger labels (RID) 3, 6.1



### 14.4. Packing group

Packing group (ADR) : 11 Packing group (IMDG) : 11 Packing group (IATA) : 11 Packing group (ADN) : 11 Packing group (RID) : 11

### 14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

: No supplementary information available Other information

#### 14.6. Special precautions for user

### Overland transport

Classification code (ADR) : FT1 Special provisions (ADR) : 279 Limited quantities (ADR) : 1I Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02 Mixed packing provisions (ADR) : MP19 Portable tank and bulk container instructions (ADR) : T7 Portable tank and bulk container special provisions : TP2

(ADR)

: L4BH Tank code (ADR) : TU15 Tank special provisions (ADR) : FL Vehicle for tank carriage Transport category (ADR) 2

Special provisions for carriage - Loading, unloading : CV13, CV28

and handling (ADR)

Special provisions for carriage - Operation (ADR) Hazard identification number (Kemler No.) 336

Orange plates

: S2, S19

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Tunnel restriction code (ADR) : D/E EAC code : •2WE APP code : A(fl)

Transport by sea

: 279 Special provisions (IMDG) Limited quantities (IMDG) : 1 L Excepted quantities (IMDG) E2 Packing instructions (IMDG) : P001 IBC packing instructions (IMDG) : IBC02 Tank instructions (IMDG) : T7 : TP2 Tank special provisions (IMDG) EmS-No. (Fire) : F-E : S-D EmS-No. (Spillage) Stowage category (IMDG) : B Stowage and handling (IMDG) : SW2

Properties and observations (IMDG) : Colourless, volatile liquid. Flashpoint: 12°C c.c. Explosive limits: 6% to 36.5% Miscible with

: 12°C c.c.

water. Toxic if swallowed, may cause blindness. Avoid skin contact.

MFAG-No : 131

Air transport

Flash point (IMDG)

: E2 PCA Excepted quantities (IATA) : Y341 PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) : 1L PCA packing instructions (IATA) : 352 PCA max net quantity (IATA) : 1L . 364 CAO packing instructions (IATA) · 60I CAO max net quantity (IATA) Special provisions (IATA) : A113 ERG code (IATA) : 3L

Inland waterway transport

: FT1 Classification code (ADN) : 279, 802 Special provisions (ADN) Limited quantities (ADN) : 1 L Excepted quantities (ADN) : E2

Equipment required (ADN) : PP, EP, EX, TOX, A

Ventilation (ADN) : VE01, VE02

Number of blue cones/lights (ADN) 2

Rail transport

Classification code (RID) : FT1 Special provisions (RID) : 279 Limited quantities (RID) : 1L Excepted quantities (RID) : E2 Packing instructions (RID) : P001, IBC02 Mixed packing provisions (RID) : MP19 Portable tank and bulk container instructions (RID) : T7 Portable tank and bulk container special provisions : TP2

(RID)

Tank codes for RID tanks (RID) : L4BH : TU15 Special provisions for RID tanks (RID) Transport category (RID) : 2

Special provisions for carriage - Loading, unloading : CW13, CW28

and handling (RID)

Colis express (express parcels) (RID) : CE7 Hazard identification number (RID) : 336

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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### **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	
3(a)	METHANOL AR/ACS	
3(b)	METHANOL AR/ACS	
40.	METHANOL AR/ACS	
69.	METHANOL AR/ACS	

METHANOL AR/ACS is not on the REACH Candidate List

METHANOL AR/ACS is not on the REACH Annex XIV List

METHANOL AR/ACS is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

METHANOL AR/ACS is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

France		
Occupational diseases		
Code	Description	
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide	

### Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV; ID No. 145)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Ontwikkeling

: The substance is not listed

The substance is not listed The substance is not listed

\_\_\_\_\_\_

: The substance is not listed

: The substance is not listed

Denmark

Class for fire hazard : Class I-1 Store unit : 1 liter

Classification remarks : F <Flam. Liq. 2>; Emergency management guidelines for the storage of flammable liquids

must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with

the product

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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### **SECTION 16: Other information**

Abbreviations and acronyms		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
voc	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3

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Full text of H- and EUH-statements		
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Flam. Liq. 2	Flammable liquids, Category 2	
STOT SE 1	Specific target organ toxicity — single exposure, Category 1	
H225	Highly flammable liquid and vapour.	
H301	Toxic if swallowed.	
H311	Toxic in contact with skin.	
H331	Toxic if inhaled.	
H370	Causes damage to organs.	

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.