

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Reference number: 00197 Issue date: 26-05-2022 Revision date: 26-05-2022 Supersedes version of: 12-04-2016 Version: 1.0

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

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1.1. Product identifier

Product form Trade name FC Index-No EC-No. CAS-No. Product code Type of product Formula Chemical structure

Substance : METHANOL SPECIALLY DRIED AR : 603-001-00-X 200-659-6 67-56-1 00197 Solvents CH4O H-C-O-H

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

1.2.1. Relevant identified uses

Use of the substance/mixture Use of the substance/mixture

- : Laboratory chemicals, Manufacture of substances
- : Solvents Laboratory chemicals Manufacture of substances Pharmaceuticals

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai - INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com - www.lobachemie.com

1.4. Emergency telephone number

Emergency number

: + 91 22 6663 6663 (9:00am - 6:00 pm)

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	

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.

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2.2. Label elements	
Labelling according to Regulation (EC) No. 12	72/2008 [CLP]
Hazard pictograms (CLP)	
	GHS02 GHS06 GHS08
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, fume, gas, mist, spray, vapours. P280 - Wear protective clothing, eye protection, face protection, protective gloves. P301+P310 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER. P311 - Call doctor.
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	

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 clothing.
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 effe	ects, 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.
4.3. Indication of any immediate medic	al attention and special treatment needed

Treat symptomatically.

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SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media Unsuitable extinguishing media	Carbon dioxide. Dry powder. Foam. Water spray.Do not use extinguishing media containing water.	
5.2. Special hazards arising from the substance or mixture		
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture. 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 equip	ment 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 Emergency procedures	 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". 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 Other information	 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. 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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	Keep away from sources of ignition - No smoking. Use only non-sparking tools. Do not breathe vapours. 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. 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	y incompatibilities
	Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. 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

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 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/cm ³
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 %
Upper explosive limit (UEL)	: 44 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. Direct sunlight. Avoid contact with hot surfaces. Heat. 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 : Not classified (acute) : Not classified Hazardous to the aquatic environment, long-term (chronic) 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 Product/Packaging disposal recommendations	 Dispose of contents/container in accordance with licensed collector's sorting instructions. 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-No. (IMDG) UN-No. (IATA)	: UN 1230 : UN 1230 : UN 1230
UN-No. (ADN) UN-No. (RID)	: UN 1230 : UN 1230
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) Transport document description (ADR) Transport document description (IMDG) Transport document description (IATA) Transport document description (ADN) Transport document description (RID)	 METHANOL METHANOL Methanol METHANOL METHANOL METHANOL UN 1230 METHANOL, 3 (6.1), II, (D/E) UN 1230 METHANOL, 3 (6.1), II (12°C с.с.) UN 1230 METHANOL, 3 (6.1), II

14.3. Transport hazard class(es)

ADR	
T	

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



IMDG Transport hazard class(es) (IMDG) Danger labels (IMDG)



: 3 (6.1) : 3, 6.1



ΙΑΤΑ

Transport hazard class(es) (IATA)	
Danger labels (IATA)	

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ADN Transport hazard class(es) (ADN) Danger labels (ADN)	: 3 (6.1) : 3, 6.1
RID Transport hazard class(es) (RID) Danger labels (RID)	: 3 (6.1) : 3, 6.1
14.4. Packing group	
Packing group (ADR) Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)	: II : II : II : II : II
14.5. Environmental hazards	
Dangerous for the environment Marine pollutant Other information	NoNoNo supplementary information available
14.6. Special precautions for user	
Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions (ADR) Tank code (ADR) Tank special provisions (ADR) Vehicle for tank carriage Transport category (ADR) Special provisions for carriage - Loading, unloading and handling (ADR) Special provisions for carriage - Operation (ADR) Hazard identification number (Kemler No.) Orange plates	: FT1 : 279 : 11 : E2 : P001, IBC02 : MP19 : T7 : TP2 : L4BH : TU15 : FL : 2 : CV13, CV28 : $S2, S19$: 336 : 336 : 336 : 1230

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Tunnel restriction code (ADR)	: D/E
EAC code	: •2WE
APP code	: A(fl)
Transport by sea	
Special provisions (IMDG)	: 279
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP2
EmS-No. (Fire)	: F-E
	: S-D
EmS-No. (Spillage)	: B
Stowage category (IMDG)	. Б : SW2
Stowage and handling (IMDG)	
Flash point (IMDG)	: 12° C c.c.
Properties and observations (IMDG)	: Colourless, volatile liquid. Flashpoint: 12°C c.c. Explosive limits: 6% to 36.5% Miscible with
	water.Toxic if swallowed; may cause blindness. Avoid skin contact.
MFAG-No	: 131
Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 352
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A113
ERG code (IATA)	: 3L
Inland waterway transport	
Inland waterway transport Classification code (ADN)	: FT1
Special provisions (ADN)	: 279, 802 : 1L
Limited quantities (ADN)	
Excepted quantities (ADN)	
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 (RID)	: TP2
Tank codes for RID tanks (RID)	: L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage - Loading, unloading	
and handling (RID)	. 01110, 01120
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 SPECIALLY DRIED AR
3(b)	METHANOL SPECIALLY DRIED AR
40.	METHANOL SPECIALLY DRIED AR
69.	METHANOL SPECIALLY DRIED AR

METHANOL SPECIALLY DRIED AR is not on the REACH Candidate List METHANOL SPECIALLY DRIED AR is not on the REACH Annex XIV List

METHANOL SPECIALLY DRIED AR 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 SPECIALLY DRIED AR 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	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting	: The substance is not listed
giftige stoffen – Borstvoeding	
NIET-limitatieve lijst van voor de voortplanting	: The substance is not listed
giftige stoffen – Vruchtbaarheid	
NIET-limitatieve lijst van voor de voortplanting	: The substance is not listed
giftige stoffen – Ontwikkeling	
Denmark	
Class for fire hazard	: Class I-1
Store unit	: 1 liter
Classification remarks	 F <flam. 2="" liq.="">; Emergency management guidelines for the storage of flammable liquids must be followed</flam.>
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 i	SECTION 16: Other information	
Abbreviations and acr	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	
ΙΑΤΑ	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	
РВТ	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.