



Product Name: Methanol CAS No.: 67-56-1 Version: 01

1. Identification

Product Code : 90030, 90029, 90028, 90724, 90188, 90460, 90461, 90604, 91631,

90098,98105

Company Name : Advent Chembio Private Limited

Address : W-288, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR

ROAD, RABALE, NAVI MUMBAI - 400 701.

E-mail : info@adventchembio.com

WEBSITE : www.adventchembio.com

Company Phone Number: 022-27690837

2. Composition/Information on Ingredients

IngredientCAS NoPercentMETHANOL67-56-199 - 100%

3. Hazards Identification

Hazard classification

Physical hazards

Flammable liquids : Category 2

Health hazards

Acute Toxicity(Oral): Category 3Acute toxicity (Dermal)Category 3Acute toxicity (Inhalation - vapor)Category 3Skin corrosion/irritation: Category 2Serious eye damage/eye irritationCategory 2Toxic to reproductionCategory 2

Specific target organ toxicity - single

exposure

Labels elements Hazard symbol



Category 1

Signal word : Danger

Hazard statement : Toxic in contact with skin.

Toxic if inhaled.
Toxic if swallowed.

Highly flammable liquid and vapor.

Causes skin irritation.
Causes serious eye irritation.

Suspected of damaging fertility or the unborn child.





Product Name: Methanol CAS No.: 67-56-1 Version: 01

Causes damage to organs.

Precautionary statement Prevention

Obtain special instructions before use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Response

IF exposed or concerned: Get medical advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Storage

Store at room temperature below 30°C in original packing, keep container tightly closed away from source of ignition, handle at inert atmosphere.

Disposal

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

4. First Aid Measures

General information

Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

Ingestion

Call a physician or poison control center immediately. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Inhalation

Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen.

Skin contact

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Eye contact

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Most important symptoms/effects,

Toxic if inhaled. Toxic if swallowed. Toxic in contact with skin. Irritating to eyes, respiratory system and skin.

acute and delayed





Product Name: Methanol CAS No.: 67-56-1 Version: 01

Indication of immediate medical attention and special treatment needed

: Treat symptomatically. Symptoms may be delayed.

5. Fire Fighting Measures

General fire hazards : Static charges generated by emptying package in or near flammable

vapor may cause flash fire.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media Specific hazards arising from the chemical

Avoid water in straight hose stream; will scatter and spread fire.
Can be ignited easily and burns vigorously. Vapor from the solvent may accumulate in container headspace resulting in flammability

hazard. Fire may produce irritating, corrosive and/or toxic gases.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: Use water spray to keep fire-exposed containers cool. Fight fire from

a protected location. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well

after the fire is out.

Special protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due

to fire.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the MSDS for Personal Protective Equipment.

Methods and material for containment and cleaning up

Eliminate all ignition sources if safe to do so. Use only non-sparking tools. All equipment used when handling the product must be grounded. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures : Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this

basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved.

Environmental precautions : Do not contaminate water sources or sewer. Prevent further leakage

or spillage if safe to do so. Avoid discharge into drains, water

courses or onto the ground.





Product Name: Methanol CAS No.: 67-56-1 Version: 01

7. Handling and Storage

Precautions for safe handling

DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharge. Use only nonsparking tools. Use personal protective equipment as required. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Do not eat, drink or smoke when using the product. Use only with adequate ventilation. Wash hands thoroughly after handling. See Section 8 of the MSDS for Personal Protective Equipment.

Conditions for safe storage, including any incompatibilities

Store at room temperature below 30°C in original packing, keep container tightly closed away from source of ignition, handle at inert atmosphere.

Keep away from food, drink and animal feeding stuffs. Keep out of 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 Controls Personal Protection

Control parameters

Occupational exposure limits

Chemical identity	Type	Exposure Limit values	Source	
METHANOL	TWA	200 ppm	US. ACGIH Threshold Limit Values (2011)	
STEL		250 ppm	US. ACGIH Threshold Limit Values (2011)	
	STEL	250 ppm 325 mg/m ³	US. NIOSH: Pocket Guide to Chemical	
			Hazards (2010)	
	REL	200 ppm 260 mg/m ³	US. NIOSH: Pocket Guide to Chemical	
			Hazards (2010)	
	PEL	200 ppm 260 mg/m ³	US. OSHA Table Z-1 Limits for Air	
			Contaminants (29 CFR 1910.1000) (02 2006)	
	TWA	200 ppm 260 mg/m ³	US.OSHA Table Z-1-A(29 CFR 1910.1000)	
			(1989)	
	STEL	250 ppm 325 mg/m ³) ppm 325 mg/m ³ US.OSHA Table Z-1-A(29 CFR 1910.1000)	
			(1989)	

Appropriate engineering controls

No data available.

Individual protection measures, such as personal protective equipment

General information

Good general ventilation (typically 10 air changes per hour) should be used. 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. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.





Product Name: Methanol CAS No.: 67-56-1 Version: 01

Eye/face protection : Chemical goggles and face shield are recommended.

Hand protection : Chemical resistant gloves.

Other : Wear suitable protective clothing and gloves .

Respiratory protection : In case of inadequate ventilation use suitable respirator.

Hygiene measures : Provide eyewash station and safety shower. Always observe good

personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that

cannot be cleaned. Wash contaminated clothing before reuse.

9. Physical and Chemical Properties

Appearance : Clear, colorless liquid.

Odor : Characteristic
Solubility : Miscible in water.
pH : No data available

Melting point/freezing point : -97.8 °C

Initial boiling point and boiling : 64 °C (101.3 kPa)

range:

Flash Point : 12 °C (Closed Cup)

Relative density : $0.8 (25 \, ^{\circ}\text{C})$

10. Stability and Reactivity

Reactivity : Contact with metals may evolve flammable hydrogen gas

Chemical stability
 Possibility of hazardous reactions
 Hazardous polymerization does not occur.

Conditions to avoid : Heat, sparks, flames. Sunlight.

Incompatible materials : Strong oxidizing agents. Acids .

Hazardous decomposition products: Thermal decomposition may release oxides of carbon. Formaldehyde.

Toxic gas.

11. Toxicological Information

Information on likely routes of exposure

Ingestion: Toxic if swallowed.Inhalation: Toxic by inhalation.Skin contact: Toxic in contact with skin.

Eve contact : Causes serious eye irritation.





CAS No.: 67-56-1 Version: 01 **Product Name:** Methanol

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product LD 50 (Rat): 5,628 mg/kg

LD 50 (Rabbit): 14,400 mg/kg

Dermal Product LD 50 (Rabbit): 15,800 mg/kg

Inhalation Product LC 50 (Rat, 6 h): 87.5 mg/l

In serious cases absorption of methanol in the body may lead to **Repeated dose toxicity Product**

damage to the eyesight.

Causes skin irritation. Skin corrosion/irritation Product

Serious eye damage/eye irritation

Product

Causes eye irritation.

Respiratory or skin sensitization

Product

Not a skin sensitizer.

Carcinogenicity Product This substance has no evidence of carcinogenic properties.

IARC Monographs on the

Evaluation of Carcinogenic Risks

to Humans

No carcinogenic components identified.

No carcinogenic components identified.

No carcinogenic components identified.

US. National Toxicology Program (NTP) Report on Carcinogens

US. OSHA Specifically Regulated

Substances (29 CFR 1910.1001-

1050

Germ cell mutagenicity

In vitro Product No mutagenic components identified. No mutagenic components identified. In vivo Product

Suspected of damaging fertility or the unborn child. **Reproductive toxicity Product** Central nervous system. Eyes.

Specific target organ toxicity -

single exposure Product

Specific target organ toxicity -None known.

repeated exposure Product

Aspiration hazard Product

No data available.

Other effects None known.

12. Ecological Information

Ecotoxicity

Acute hazards to the aquatic environment:

Fish Product LC 50 (Fathead minnow (Pimephales promelas), 96 h): > 100 mg/l

EC 50 (Water flea (Daphnia magna), 48 h): > 10,000 mg/l **Aquatic invertebrates Product**

Chronic hazards to the aquatic environment:

No data available. **Fish Product Aquatic invertebrates Product** No data available. **Toxicity to Aquatic Plants Product: :** No data available.





Product Name: Methanol CAS No.: 67-56-1 Version: 01

Persistence and degradability Biodegradation Product BOD/COD ratio Product Bioaccumulative potential Bioconcentration factor (BCF)

Product

Partition coefficient n-octanol / water (log Kow) Product

Mobility in soil

Other adverse effects

: Expected to be readily biodegradable.

: No data available.

: May accumulate in soil and water systems.

: Log Kow: -0.77

: No data available.

: 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.

13. Disposal consideration

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state,

or local laws.

Contaminated packaging : Since emptied containers retain product residue, follow label

warnings even after container is empty.

14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	UN 1230	METHANOL	3(6.1)	ll ll	No
IMDG	UN 1230	METHANOL	3(6.1)	II	No
IATA	UN 1230	METHANOL	3(6.1)	II	No

15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.

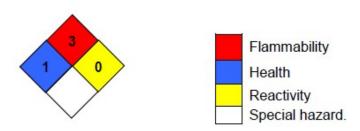




Product Name: Methanol CAS No.: 67-56-1 Version: 01

16. Other Information

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue Date:01/01/2020

Version :01

Disclaimer: This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. ADVENT CHEMBIO PRIVATE LIMITED makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the technical instructor in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of ADVENT CHEMBIO PRIVATE LIMITED and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).