

MATERIAL SAFETY DATA SHEET

Version:01

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PRODUCT NAME: METHANOL CAS Number: 67-56-1

1. IDENTIFICATION:

Product Code 90028, 90029, 90030, 90098, 90188, 90461, 90604, 90680, 90460, 90607, 90704, 90719,

90724, 93509, 94046, 94104, 96511, 97216, 98105, 98607, 98701, 99503, 999004, 13352

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2. HAZARDS IDENTIFICATION:

Hazard classification

Physical hazards

Flammable liquids : Category 2

Health hazards

Acute Toxicity(Oral) : Category 3

Acute toxicity (Dermal) : Category 3

Acute toxicity (Inhalation -

vapor)

: Category 3

Skin corrosion/irritation: Category 2

Serious eye damage/eye

irritation

Category 2

Toxic to reproduction : Category 2

Specific target organ

toxicity - single exposure

Category 1

Labels elements

Hazard symbol



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.

Causes damage to organs.



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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 in a dry & well-ventilated place. Keep container tightly closed. Containers which are

opened must be carefully resealed and kept upright to prevent leakage.

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.

3. COMPOSITION/ INFORMATION ON INGRADIENTS:

Ingredient	CAS Number	Percent	Hazardous
Methanol	67-56-1	99 - 100%	Yes

4. FIRST AID MEASURES:

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

attendance

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do NOT induce

vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the

lungs.

Move to fresh air. Call a physician or poison control center immediately. If breathing stops,

provide artificial respiration. If breathing is difficult, give oxygen.
 Get medical attention if symptoms persist.

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

lenses. Get medical attention.

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, acute

and delayed

Inhalation

Skin contact

Indication of immediate

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

system and skin.

: Symptoms may be delayed. Treat symptomatically.



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medical attention and special treatment needed

FIRE FIGHTING MEASURES:

General information : Flammable liquid and vapor.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media

Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing

media

Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from the chemical

Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive

concentrations. Vapor from the solvent may accumulate in container headspace resulting in

flammability hazard. Heat may cause the containers to explode.

Special protective equipment and precautions for firefighters

Special firefighting

procedures

Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting

the fire. Fight fire from a protected location. Move containers from fire area if you can do so

without risk.

Special protective

Firefighters must use standard protective equipment including flame retardant coat, helmet

with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures

equipment for fire-fighters

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning

up

Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk.

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

Prevent entry into waterways, sewer, basements or confined areas. 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.

HANDLING AND STORAGE:

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. 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 discharges. Ground/bond container and receiving explosion-proof equipment. Use electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye

Protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage,

Keep away from food, drink and animal feeding stuffs. Keep container tightly closed and



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including any incompatibilities

Store in a dry, well-ventilated place. 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	Туре	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	US.OSHA Table Z-1-A(29 CFR 1910.1000) (1989)		

Appropriate engineering

General information

Hygiene measures

controls : No data available

Individual protection measures, such as personal protective equipment

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.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Hand protection . Chemical resistant gloves.

Other . Wear suitable protective clothing.

Respiratory protection . In case of inadequate ventilation use suitable respirator. Chemical respirator with organic

vapor cartridge.

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.

Avoid contact with eyes, skin, and clothing.



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9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance : Clear, colorless liquid

Odor : Characteristic

Solubility : Miscible in water.

Molecular Formula : CH₄O

Molecular Weight : 32.04 g/mol

Specific Gravity : 0.791 g/mL at 25 °C

pH : No data available.

% Volatiles by volume @

21C (70F)

100

Boiling Point : 64.7 °C

Melting Point : -98.0 °C

Flash Point : 9.7 °C

Vapor Density (Air=1) : 1.11

Vapor Pressure (mm Hg) : 16.9 kPa at 25 °C

Evaporation Rate (BuAc=1) : 6.3

10. STABILITY AND REACTIVITY:

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid : Heat, sparks, flames.

Incompatible materials : Strong oxidizing agents.

Hazardous decomposition

products

Thermal decomposition may release carbon oxides.

11. TOXICOLOGICAL INFORMATION:

Information on likely routes of exposure

Ingestion : Irritating. May cause nausea, stomach pain and vomiting.

Inhalation May cause irritation to the mucous membranes and upper respiratory tract. May cause

central nervous system effects

Skin contact : Causes mild skin irritation



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Eye contact : Causes serious eye irritation.

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

Repeated dose toxicity

Product

In serious cases absorption in the body may lead to damage to the eyesight.

Skin corrosion/irritation **Product**

Prolonged or repeated skin contact may cause drying, cracking, or irritation

Serious eye damage/eye

irritation Product

: Irritating to eyes.

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.

US. National Toxicology

Program (NTP) Report on

Carcinogens

US. OSHA Specifically

Regulated Substances (29

CFR 1910.1001-1050

Germ cell mutagenicity

: No carcinogenic components identified.

In vitro Product

: No mutagenic components identified.

Reproductive toxicity

Product

Suspected of damaging fertility or the unborn child.

Specific target organ

toxicity - single exposure

Product

: Central nervous system. Eyes.

Specific target organ

toxicity - repeated

: No data available.

exposure Product

Aspiration hazard Product

: May be harmful if swallowed and enters airways.

Other effects

No data available.



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12. ECOLOGICAL INFORMATION:

Ecotoxicity

Acute hazards to the aquatic environment :

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

Aquatic invertebrates

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

Chronic hazards to the aquatic environment:

Fish Product No data available.

Aquatic invertebrates

No data available.

Product

Toxicity to Aquatic Plants Product:

No data available.

Persistence and degradability

Biodegradation Product Expected to be readily biodegradable.

BOD/COD ratio Product No data available.

Bioaccumulative potential

Bioconcentration factor

(BCF) Product

May accumulate in soil and water systems.

Partition coefficient n-

octanol / water (log Kow)

No data available.

Product

Specified substance(s)

Log Kow: -0.77

Mobility in soil

No data available.

Other adverse 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.

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 emptied.



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14. TRANSPORT INFORMATION:							
	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant		
DOT	UN 1230	Methanol	3(6.1)	II	No		
IMDG	UN 1230	Methanol	3(6.1)	II	No		
IATA	UN 1230	Methanol	3(6.1)	II	No		

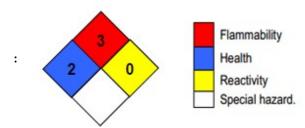
15. REGULATORY INFORMATION:

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.

16. OTHER INFORMATION:

NFPA Hazard ID



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

Issue Date : 07/06/2023

Version : 01

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