# **Safety Data Sheet**

# 3 Mix benzene in methanol

Version: V2.0.0.1

Report No.: BWQ8195-2016-MSDS-US

Creation Date: 2025/11/05

Revision Date: -



#### \*Prepared according to American OSHA HCS-2024 (29 CFR 1910.1200)

1 Identi	fication
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## | Product identifier

Product Name	3 Mix benzene in methanol
Cat No.	BWQ8195-2016
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

## Recommended use of the product and restrictions on use

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

## Details of the supplier of the Safety Data Sheet

Name of the company	Weiyel Inc
Address of the company	Hedian Light Industrial Park, Chengguan Town, Shangcheng County, Xinyang
	City, Henan Province, China
Post code	465350
Telephone number	010-58103678
Fax number	010-84840368
E-mail address	info@weiyel.com

## | Emergency phone number

Emergency phone number	010-58103678

# 2 Hazard(s) identification

## Hazard classification according to 29 CFR 1910.1200

Acute Toxicity - Oral	Category 3
Acute Toxicity - Dermal	Category 3
Acute Toxicity - Inhalation	Category 3
Germ Cell Mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive toxicity	Category 2
Specific target organ toxicity -	Category 1
single exposure	

## | Label elements

# Hazard pictograms

Signal word Dan

# Hazard statements

H301	Toxic if swallowed
H311	Toxic in contact with skin
H331	Toxic if inhaled
H340	May cause genetic defects
H350	May cause cancer
H361	Suspected of damaging the unborn child
H370	Causes damage to organs

# | Precautionary statements

#### Prevention

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe gas/mist/vapour/spray.
Wash hands and other parts of the body (if related) thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or with adequate ventilation.
Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

## Response

P321	Specific treatment (see related instructions on the label).
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.

# Storage

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
A Discount	

## Disposal

P501	Dispose of contents/container in accordance with local/regional/national/
	international regulations.

## Other hazards

Not applicable.

# Hazard description

Physical and chemical hazards

	No information available
<ul><li>Health hazards</li></ul>	

Cough. Dizziness. Headache. Nausea. Weakness. Visual disturbance.		
Abdominal pain. Shortness of breath. Vomiting. Convulsions. Unconsciousness. (Further see Inhalation).		
MAY BE ABSORBED! Dry skin. Redness.		
Redness. Pain.		
◆ Environmental hazards		

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	Please refer to 12th chapter of SDS.
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# 3 Composition/information on ingredients

# Substance/mixture

Mixture

Component	CAS No.	EC No.	Concentration (wt, %)
Methanol	67-56-1	200-659-6	99.244
Benzene	71-43-2	200-753-7	0.252
Toluene	108-88-3	203-625-9	0.252
Ethylbenzene	100-41-4	202-849-4	0.252

# 4 First-aid measures

## Description of first aid measures

<u> </u>	
General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the
	doctor in attendance.
Eye contact	First rinse with plenty of water for several minutes (remove contact lenses if easily
	possible), then take to a doctor.
Skin contact	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer
	for medical attention.
Ingestion	Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical
	attention.
Inhalation	Fresh air, rest. Refer for medical attention.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take
	precautions to protect themselves and prevent spread of contamination.

# Most important symptoms/effects, acute and delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

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

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

# 5 Fire-fighting measures

## | Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used.

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#### Specific hazards arising from the substance or mixture

- 1 Development of hazardous combustion gases or vapor possible in the event of fire.
- 2 May expansion or decompose explosively when heated or involved in fire.

#### Special protective equipment and precautions for fire-fighters

- As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

# 6 Accidental release measures

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

- 1 Use personal protective equipment, do not breathe gas/mist/vapour/spray.
- 2 Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
- 3 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### **Environmental precautions**

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

#### Methods and materials for containment and cleaning up

- 1 Cut off the source of the leak as much as possible.
- 2 Keep leaks in a ventilated place.
- Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 4 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
- Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.

# 7 Handling and storage

#### Precautions for safe handling

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.
- 4 Keep away from heat/sparks/open flames/ hot surfaces.

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

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

# 8 Exposure controls/personal protection

#### **Control parameters**

# ♦ Occupational exposure limit values

Component	Country/Region	Limit value -	Eight hours	Limit value	- Short term
		ppm	mg/m³	ppm	mg/m³
Methanol	Japan - JSOH(2024–202 5)	200	260	-	-
	Permissible exposure standards for workers in the workplace	200	262	250	327.5
	Australia	200	262	250	328
	Canada - Ontario	200	-	250	-
	European Union	200	260	-	-
	New Zealand	200	262	250	328
Benzene	Japan - JSOH(2024–202 5)	1(individual excess lifetime risk of cancer 10^-3)	-	-	-
	Permissible exposure standards for workers in the workplace	1	3.2	2	6.4
	Australia	1	3.2	-	-
	Canada - Ontario	0.5	-	2.5	-
	European Union	0.2	0.66	-	-
	New Zealand	0.05	0.16	-	-
Toluene	Japan - JSOH(2024–202 5)	50	188	-	-
	Permissible exposure standards for workers in the workplace	50	188	75	235
	Australia	50	191	150	574
	Canada - Ontario	20	-	-	-
	European Union	50	192	100	384
	New Zealand	20	75	100	377
Ethylbenzene	Japan - JSOH(2024–202 5)	20	87	-	-
	Permissible exposure standards for workers in the workplace	100	434	125	542.5
	Australia	100	434	125	543
	Canada - Ontario	20	-	-	-

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	European Union	100	442	200	884

European Union	100	442	200	884
New Zealand	20	88	40	176

# | Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.

# | Personal protection equipment

General requirement	
Eye protection	Must wear appropriate safety goggles.
Hand protection	Must wear appropriate chemical protective gloves.
Respiratory protection	Must wear appropriate personal dust proof gas mask.
Skin and body protection	Must wear appropriate chemical protective clothing and chemical resistant shoes.

# 9 Physical and chemical properties and safety characteristics

Set up emergency exit and necessary risk-elimination area.

# | Physical and chemical properties

Appearance (physical state,	colorless liquid
color, etc.)	
Odor	No information available
Odor threshold	No information available
рН	No information available
Melting point/freezing point(°C)	No information available
Initial boiling point and boiling range(°C)	>35
Flash point(Closed cup,°C)	No information available
Evaporation rate	No information available
Flammability	No information available
Upper/lower explosive limits[%(v/v)]	Upper limit: No information available; Lower limit: No information available
Vapor pressure	No information available
Vapor density(Air = 1)	No information available
Relative density(Water=1)	No information available
Solubility	No information available
n-octanol/water partition coefficient	No information available
Auto-ignition temperature(°C)	No information available
Decomposition temperature(°C)	No information available
Kinematic viscosity	No information available

# 10 Stability and reactivity

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# | Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions  Conditions to avoid	In contact with oxidants causes severe reactions, and may cause a fire or explosion. In contact with halides may cause an active reaction.  Incompatible materials, heat, flame and spark.
Incompatible materials	Oxidants, alkali metals, alkaline earth metals and aluminum. Halides, oxidants and halogen.
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products
products	should not be produced.

# Toxicological information

# Acute toxicity

Component	LD <sub>50</sub> (oral)	LD <sub>50</sub> (dermal)	LC <sub>50</sub> (inhalation,4h)
Benzene	930mg/kg(Rat)	> 8260mg/kg(Rabbit)	No information available
Ethylbenzene	3500mg/kg(Rat)	15400mg/kg(Rabbit)	No information available
Methanol	5628mg/kg(Rat)	15800mg/kg(Rabbit)	83.867mg/L(Rat)
Toluene	636mg/kg(Rat)	12200mg/kg(Rabbit)	49mg/L(Rat)

# Carcinogenicity

Component	List of carcinogens by	Report on Carcinogens	OSHA Carcinogen List			
	the IARC Monographs	by NTP				
Methanol	Not Listed	Not Listed	Not Listed			
Benzene	Category 1	Category K	Listed			
Toluene	Category 3	Not Listed	Not Listed			
Ethylbenzene	Category 2B	Not Listed	Not Listed			

# Others

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Skin corrosion/irritation	Based on available data, the classification criteria are not met				
Serious eye damage/irritation	Based on available data, the classification criteria are not met				
Skin sensitization	Based on available data, the classification criteria are not met				
Respiratory sensitization	Based on available data, the classification criteria are not met				
Reproductive toxicity	Suspected of damaging the unborn child(Category 2)				
STOT-single exposure	Causes damage to organs(Category 1)				
STOT-repeated exposure	Based on available data, the classification criteria are not met				
Aspiration hazard	Based on available data, the classification criteria are not met				
Germ cell mutagenicity	May cause genetic defects(Category 1B)				

# 12 Ecological information

# | Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic
Benzene	LC <sub>50</sub> : 21.6mg/L (96h)(Fish)	EC <sub>50</sub> : 10.9mg/L (48h)(Crustaceans)	ErC <sub>50</sub> : 1600mg/L (96h)(Algae)
Ethylbenzene	LC <sub>50</sub> : 4.2mg/L (96h)(Fish)	EC <sub>50</sub> : 4.75mg/L (48h)(Crustaceans)	ErC <sub>50</sub> : 3.6mg/L (96h)(Algae)
Methanol	LC <sub>50</sub> : 24000mg/L (96h)(Fish)	EC <sub>50</sub> : 24500mg/L (48h)(Crustaceans)	No information available
Toluene	LC <sub>50</sub> : 25mg/L (96h)(Fish)	EC <sub>50</sub> : 4.1mg/L (48h)(Crustaceans)	ErC <sub>50</sub> : 29mg/L (72h)(Algae)

# | Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Toluene	No information available	NOEC : 1.2mg/L(Crustaceans)	NOEC: 9.1mg/L(Algae)

# | Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Methanol	Low	Low

# | Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Methanol	Low	BCF=10

# Mobility in soil

Component	log Koc	Remark
Methanol	0.000	
Benzene	2.13	20 ℃
Toluene	2.31	20 ℃
Ethylbenzene	3.12	20 ℃

# 13 Disposal considerations

# | Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot
	and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

# 14 Transport information

## Label and Mark

Transporting Label Not applicable		
	Transporting Label	Not applicable

#### IMDG-CODE

IMDG-CODE NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### I IATA-DGR

IATA-DGR | NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### UN-ADR

UN-ADR NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### Transport in bulk according to IMO instruments

◆ Transport in bulk according to Annex II of MARPOL and the IBC code

Not Available

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Not Available

◆ Transport in bulk in accordance with the IGC Code

Not Available

#### Others

**Precautions for transport** 

Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.

# 15 Regulatory information

## International chemical inventory

Component	Α	В	С	D	E	F	G	Н	I	J	K	L	M
Methanol	√	V	<b>√</b>	<b>√</b>	<b>√</b>	√	<b>√</b>	<b>√</b>	<b>V</b>	<b>√</b>	<b>√</b>	√	<b>√</b>
Benzene	√	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	√	√	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	√	<b>√</b>
Toluene	√	<b>√</b>	√	<b>√</b>									
Ethylbenzene	√	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	√	√	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	√	<b>√</b>

- [A] China Inventory of Existing Chemical Substances(IECSC)
- [B] European Inventory of Existing Commercial Chemical Substances(EC inventory)
- [C] United States Toxic Substances Control Act Inventory(TSCA)
- [D] Canadian Domestic Substances List(DSL)
- [E] New Zealand Inventory of Chemicals(NZloC)
- [F] Philippines Inventory of Chemicals and Chemical Substances(PICCS)
- 【G】 Korea Existing Chemicals Inventory(KECL)
- [H] Australian. Inventory of Industrial Chemical (AIICS)
- [1] Japan Inventory of Existing & New Chemical Substances(ENCS)
- [J] Thailand Existing Chemicals Inventory(TECI)
- [K] Mexico National Inventory of Chemical Substances (INSQ)
- [L] Russia Inventory of Existing Substances (DRAFT)
- [M] Inventory of Existing Chemical Substances in Taiwan, China (TCSI)

#### List of Chemical Substances under International Conventions

Component	Α	В	С
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Methanol	×	×	×
Benzene	×	×	×
Toluene	×	×	×
Ethylbenzene	×	×	×

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- [A] The Montreal Protocol on Substances that Deplete the Ozone Layer
- [B] Stockholm Convention on Persistent Organic Pollutants (POPs)
- [C] Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade

## US chemical inventory

Component	Α	В	С	D	E	F	G	Н
Methanol	√	×	<b>√</b>	<b>√</b>	<b>√</b>	<b>V</b>	√	√
Benzene	V	×	<b>V</b>	<b>√</b>	<b>V</b>	V	<b>V</b>	<b>√</b>
Toluene	√	×	√	√	√	√	√	√
Ethylbenzene	1	×	<b>√</b>	<b>√</b>	<b>√</b>	<b>V</b>	<b>√</b>	√

- [A] US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants
- [B] US SARA 302- Extremely Hazardous Substance List
- [C] US CERCLA- Hazardous Substances List
- [D] US Massachusetts Right-to-Know Substance List
- [E] US New Jersey Right to Know Hazardous Substance List
- [F] US Pennsylvania Right to Know Hazardous Substance List
- [G] US New York City Right-to-Know Hazardous Substance List
- [H] US California Proposition 65 List

#### Note:

- " $\sqrt{\phantom{a}}$ " Indicates that the substance included in the regulations.
- "x" No data or not included in the regulations.

# 16 Other information

#### Information on revision

Creation Date	2025/11/05
Revision Date	-
Reason for revision	-

#### Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
- [2] IARC, website: http://www.iarc.fr/.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportal/.
- [4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
- $\hbox{[5]} \qquad \hbox{NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.}$
- [6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
- [7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.
- [8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

#### Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG- CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer

Endocrine disruptor

**HCS** 

Hazard Communication Standard

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#### Disclaimer

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This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2024. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.