

Trade name: Methanol

Current version : 3.0.1, issued: 28.02.2024

Replaced version: 3.0.0, issued: 30.01.2024

Region: GB

SECTION 1: Title and scope of exposure scenario (ES)

1.1 Title exposure scenario (ES)

ES15 Use as automotive fuel - consumer use

1.2 Scope of exposure scenario (ES)

ES Type Consumer-ES for substance/mixture

Life cycle stage Consumer end use

Product identifier

Trade name Methanol

Substance name methanol

REACH registration no. 01-2119433307-44

CAS no. 67-56-1

EC no. 200-659-6

Use descriptors

Sector of use (SU)		
Category	Code	Use description
Main user group	SU21	Consumer uses
Environmental release category (ERC)		
Category	Code	Use description
Environmental release category (ERC)	ERC8e	Wide dispersive outdoor use of reactive substances in open systems
Product category (PC)		
Category	Code	Use description
Product category (PC)	PC13_1	Fuels
	PC13_2	Fuels

SECTION 2: Operational conditions (OC) and risk management measures (RMM) controlling exposure towards environment and men

2.1 Product characteristics

State of aggregation	
liquid	
Reference temperature	25 °C
Dustiness	
Not applicable	
Vapour pressure	
Value	169.27 hPa
Reference temperature	25 °C
Other information	
The efficiency of a risk management measure is a theoretical value. The efficiency describes to which extend (in percent) the calculated exposure can be diminished by applying a certain measure. If the described operational conditions and risk management measures are fulfilled by a downstream user, the efficiency as highlighted in the ES can be applied. A downstream user might check whether the efficiency of the LEV or general ventilation corresponds to his site.	
For further instructions related to "Personal protective equipment" please refer to section 8 of the Safety Data Sheet.	

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2.2 Contributing scenario controlling environmental exposure

Affected environmental release category (ERC)		
Category	Code	Use description
Environmental release category (ERC)	ERC8e	Wide dispersive outdoor use of reactive substances in open systems

Risk management measures (RMM) controlling environmental exposure

Technical measures and efficiency of the risk management measures (in exposure calculation model)
No special measures are required.

Organisational measures
No special measures are required.

Measures related to wastewater treatment and efficiency of the risk management measures (in exposure calculation model)
No special measures are required.

Measures related to waste treatment
For further instructions related to waste management please refer to section 13 of the Safety Data Sheet.

Further measures	
ERC8e	No special measures are required.

2.3 Contributing scenario controlling consumer exposure

Affected product category (PC)		
Category	Code	Use description
Product category (PC)	PC13_1	Fuels
	PC13_2	Fuels

Operational conditions controlling consumer exposure

Concentration of substance			
	PC13_1		PC13_2
Value	≤ 3	%	≤ 3 %

Amounts used			
	PC13_1		PC13_2
Value	≤ 10	g	≤ 10 g

Use conditions			
	PC13_1		PC13_2
Duration of use	≤ 10	min.	≤ 10 min.
Frequency of use	≤ 2	per week	No data available.

Conditions for indoor use			
	PC13_1		PC13_2
Room size	≤ 20	m ³	≤ 20 m ³
Room temperature	20	°C	20 °C
Air exchange rate	≤ 0.5	L/h	≤ 0.5 L/h

Exposure conditions			
	PC13_1		PC13_2
Duration of exposure per application	10	min.	10 min.

Risk management measures (RMM) controlling consumer exposure

Risk management measures (RMM) controlling consumer exposure
No special measures are required.

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SECTION 3: Exposure estimation and reference to sources

3.1 Advice

The Risk Characterization Ratio (RCR) is the quotient of predicted human/environmental exposure and the related DNEL/PNEC. Exposure is calculated based on exposure models as stated below. If $RCR \leq 1$ a use is considered as safe under operational conditions and risk management measures as specified in the exposure scenario.

For DNEL/PNEC values please refer to section 8 of the safety data sheet.

3.2 Exposure estimation - Environment

Affected environmental release category (ERC)		
Category	Code	Use description
Environmental release category (ERC)	ERC8e	Wide dispersive outdoor use of reactive substances in open systems
Used exposure estimation model for calculation of environmental exposure		
Used exposure estimation model	As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.	

3.3 Exposure estimation - Consumer

Affected product category (PC)					
Category	Code	Use description			
Product category (PC)	PC13_1	Fuels			
	PC13_2	Fuels			
Used exposure estimation model for calculation of consumer exposure					
Used exposure estimation model	ConsExpo (v4.1)				
Link to exposure estimation tool	ConsExpo: http://www.rivm.nl/en/Topics/Topics/C/ConsExpo				
Risk characterisation ratio (RCR)					
	Exposure estimation	oral	inhalative	dermal	total
PC13_1	Long-term systemic		0.000	0.164	0.164
PC13_2	Long-term systemic		0.007	0.577	0.584

SECTION 4: Guidance to DU to evaluate whether he works inside the boundaries set by the ES

4.1 Recommendations and advice

No data available

4.2 Exposure estimation - Environment

Used exposure estimation model for calculation of environmental exposure	
Used exposure estimation model	As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

4.3 Exposure estimation - Consumer

Used exposure estimation model for calculation of consumer exposure	
Used exposure estimation model	ConsExpo (v4.1)
Link to exposure estimation tool	ConsExpo: http://www.rivm.nl/en/Topics/Topics/C/ConsExpo