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)

ES14 Use as fuel outdoors (gasoline additive) - 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)	ERC8b	Wide dispersive indoor use of reactive substances in open systems
Product category (PC)		
Category	Code	Use description
Product category (PC)	PC13_1	Fuels
	PC13_2	Fuels
	PC13_3	Fuels
	PC13_4	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.

Trade name: Methanol

2.2 Contributing scenario controlling environmental exposure

Affected environmental release category (ERC)		
Category	Code	Use description
Environmental release category (ERC)	ERC8b	Wide dispersive indoor use of reactive substances in open systems

Risk management measures (RMM) controlling environmental exposure

Technical measures and efficiency of the risk managment 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 managment 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	
ERC8b	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
	PC13_3	Fuels
	PC13_4	Fuels

Operational conditions controlling consumer exposure

Reference to relevant fact sheet
ConsExpo (v4.1): Inhalation model: Exposure to vapour – evaporation; Dermal model: Direct dermal contact with product: instant application; Dermal uptake model: Fraction.

Concentration of substance			
	PC13_1	PC13_2	PC13_3
Value	≤ 9 %	≤ 80 %	≤ 9 %
	PC13_4		
Value	≤ 80 %		

Amounts used			
	PC13_1	PC13_2	PC13_3
Type	per event	per event	per event
Value	≤ 800 g	≤ 800 g	≤ 800 g
	PC13_4		
Type	per event		
Value	≤ 800 g		

Use conditions			
	PC13_1	PC13_2	PC13_3
Duration of use	10 min.	10 min.	10 min.
Frequency of use			No data available.
	ca. 2 per week	ca. 2 per week	
	PC13_4		
Duration of use	10 min.		
Frequency of use	No data available.		

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Conditions for indoor use								
	PC13_1			PC13_2			PC13_3	
Room size	≥ 20	m³	≥ 20		m³	≥ 20		m³
Room temperature	20	°C	20		°C	20		°C
Air exchange rate	≥ 0.5	L/h	≥ 0.5		L/h	≥ 0.5		L/h
	PC13_4							
Room size	≥ 20	m³						
Room temperature	20	°C						
Air exchange rate	≥ 0.5	L/h						

Exposure conditions						
	PC13_1		PC13_2		PC13_3	
Duration of exposure per application	10	min.	10	min.	10	min.
	PC13_4					
Duration of exposure per application	10	min.				

Risk management measures (RMM) controlling consumer exposure

Risk management measures (RMM) controlling consumer exposure	
PC13_2	Use protective gloves.
PC13_4	Use protective gloves.

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 ≤ 1 a use is considered as safe under operational conditions and risk management measures as specified in the exposure szenario.

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)	ERC8b	Wide dispersive indoor 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
	PC13_3	Fuels
	PC13_4	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
Other information	For further conditions of use and parameters for exposure estimation please refer to factsheet.

Trade name: Methanol

Risk characterisation ratio (RCR)					
	Exposure estimation	**oral**	**inhalative**	**dermal**	**total**
PC13_1	Long-term systemic		0.000	0.247	0.247
PC13_2	Long-term systemic		0.000	0.220	0.220
PC13_3	Long-term systemic		0.021	0.865	0.886
PC13_4	Long-term systemic		0.082	0.769	0.851

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
Other information	For further conditions of use and parameters for exposure estimation please refer to factsheet.