Trade name: Methanol

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

1.1 Title exposure scenario (ES)

ES12 Use of cleaning agents (e.g. windshield cleaner) and de-icers (liquid non-spray products) - 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)	ERC8a	Wide dispersive indoor use of processing aids in open systems
	ERC8d	Wide dispersive outdoor use of processing aids in open systems
Product category (PC)		
Category	Code	Use description
Product category (PC)	PC4	Anti-freeze and de-icing products
	PC4_0_1	Anti-freeze and de-icing products - non-spraying products
	PC35	Washing and cleaning products (including solvent based products)
	PC35_0_1	Washing and cleaning products (including solvent based products) - liquid detergents

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.

2.2   Contributing scenario controlling environmental exposure

Affected environmental release category (ERC)		
Category	Code	Use description
Environmental release category (ERC)	ERC8a	Wide dispersive indoor use of processing aids in open systems
	ERC8d	Wide dispersive outdoor use of processing aids 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	
ERC8a, ERC8d	No special measures are required.

2.3   Contributing scenario controlling consumer exposure

Affected product category (PC)		
Category	Code	Use description
Product category (PC)	PC4	Anti-freeze and de-icing products
	PC4_0_1	Anti-freeze and de-icing products - non-spraying products
	PC35	Washing and cleaning products (including solvent based products)
	PC35_0_1	Washing and cleaning products (including solvent based products) - liquid detergents

Operational conditions controlling consumer exposure

Reference to relevant fact sheet
ConsExpo (v4.1) FS: Cleaning and washing agents/All-purpose cleaners/Liquid cleaner/Application (Inhalation evaporation model: mode of release–evaporation; Dermal direcproduct contact: dermal loading–instant application)

Concentration of substance			
	PC4	PC4_0_1	PC35
Value	≤ 2.5 %	≤ 2.5 %	≤ 2.5 %
	PC35_0_1		
Value	≤ 2.5 %		

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Amounts used			
	PC4	PC4_0_1	PC35
Type	per event	per event	per event
Value	≤ 100 g	≤ 100 g	≤ 100 g
	PC35_0_1		
Type	per event		
Value	≤ 100 g		

Use conditions			
	PC4	PC4_0_1	PC35
Duration of use	≤ 240 min.	≤ 240 min.	≤ 240 min.
Frequency of use		No data available.	
	ca. 104 per year		ca. 104 per year
	PC35_0_1		
Duration of use	≤ 240 min.		
Frequency of use	No data available.		

Conditions for indoor use			
	PC4	PC4_0_1	PC35
Room size	≥ 58 m³	≥ 58 m³	≥ 58 m³
Room temperature	20 °C	20 °C	20 °C
Air exchange rate	≥ 0.5 L/h	≥ 0.5 L/h	≥ 0.5 L/h
	PC35_0_1		
Room size	≥ 58 m³		
Room temperature	20 °C		
Air exchange rate	≥ 0.5 L/h		

Exposure conditions			
	PC4	PC4_0_1	PC35
Duration of exposure per application	≤ 20 min.	≤ 20 min.	≤ 20 min.
	PC35_0_1		
Duration of exposure per application	≤ 20 min.		

Risk management measures (RMM) controlling consumer exposure

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

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)	ERC8a	Wide dispersive indoor use of processing aids in open systems
	ERC8d	Wide dispersive outdoor use of processing aids 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.

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3.3   Exposure estimation - Consumer

Affected product category (PC)		
Category	Code	Use description
Product category (PC)	PC4	Anti-freeze and de-icing products
	PC4_0_1	Anti-freeze and de-icing products - non-spraying products
	PC35	Washing and cleaning products (including solvent based products)
	PC35_0_1	Washing and cleaning products (including solvent based products) - liquid detergents

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 this exposure assessment the exposure model has been modified. For further conditions of use and parameters for exposure estimation please refer to factsheet.

Risk characterisation ratio (RCR)					
	Exposure estimation	oral	inhalative	dermal	total
PC4, PC35	Long-term systemic		0.061	0.068	0.129
PC4_0_1	Long-term systemic		0.367	0.240	0.607
PC35_0_1	Long-term systemic		0.367	0.240	0.607

Other information	
PC4, PC35	Oral exposure route is regarded not to be relevant.

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 this exposure assessment the exposure model has been modified. For further conditions of use and parameters for exposure estimation please refer to factsheet.