

Current version: 3.0.1, issued: 28.02.2024 Reglaced 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)

ES11 Use as a laboratory reagent - use in professional settings

1.2 Scope of exposure scenario (ES)

ES Type Worker Exposure Scenario for substance/mixture

Life cycle stage Professional 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

OSC GCSCHPIOIS						
Sector of use (SU)						
Category	Code	Use description				
Main user group	SU22	Professional uses				
Environmental release ca	tegory (ERC)					
Category	Code	Use description				
Environmental release	ERC8a	Wide dispersive indoor use of processing aids in open				
category (ERC)		systems				
Process category (PROC)						
Category	Code	Use description				
Process category (PROC)	PROC10	Roller application or brushing				
	PROC15	Use as laboratory reagent				

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	

DustinessNot 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	ERC8a	Wide dispersive indoor use of processing aids in open		
category (ERC)		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	No special measures are required.

2.3 Contributing scenario controlling worker exposure

Affected process category (PROC)				
Category	Code	Use description		
Process category (PROC)	ROC10 Roller application or brushing			
	PROC15	Use as laboratory reagent		

Operational conditions controlling worker exposure

Concentration of substance			
	PROC10	PROC15	
Value	< 5 %	< 100 %	

Amounts used			
	PROC10	PROC15	
	Not relevant	Not relevant	

Use conditions						
	PROC10		PR	OC15		
Location of use	Indoor use		Indo	oor use		
Duration of use	≤ 8	hours/day	≤	8	hours/day	
Frequency of use	≤ 240	days/year	≤	240	days/year	

Risk management measures (RMM) controlling worker exposure

Technical measures and efficiency of the risk managment measures (in exposure calculation model)				
PROC10	Measures	No special measures are required.		
PROC15	Measures	Handle only at a place with local exhaust system (or another appropriate exhaust).		
	Efficiency (%)	80		



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Organisational measures	
No special measures are required.	

Personal protective equipment and efficiency of the risk managment measures (in exposure calculation model)

Hand protection		
PROC10	Measures	Wear suitable gloves tested to EN374.
	Efficiency (%)	80
PROC15	Measures	Wear suitable gloves tested to EN374.
	Efficiency (%)	80

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	ERC8a	Wide dispersive indoor use of processing aids in open
category (ERC)		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 - Worker

Affected process category (PROC)		
Category	Code	Use description
Process category (PROC)	PROC10	Roller application or brushing
	PROC15	Use as laboratory reagent

Used exposure estimation model for calculation of worker exposure	
Used exposure estimation model	EasyTRA Version 3.0
Link to exposure estimation tool	EASY TRA: http://www.easytra.de

Risk characterisation ratio (RCR)				
	Exposure estimation	inhalative	dermal	total
PROC10	Long-term systemic	0.128	0.007	0.135
	Short-term systemic	0.256	0.007	0.263
PROC15	Long-term systemic	0.051	0.002	0.053
	Short-term systemic	0.102	0.002	0.104

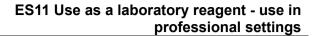
SECTION 4: Guidance to DU to evaluate whether he works inside the boundaries set by the ES

4.1 Recommendations and advice

Recommendations and general advice

- For additional instructions relating to adaptation of conditions of use in view of a scaling, pls. see the "ECHA Guidance for downstream users" http://echa.europa.eu/regulations/reach/downstream-users

If a downstream user uses the substance/preparation differently than stated in the ES (different operational conditions and/or risk management measures), he has the possibility to vary certain parameters of the exposure assessment. With the help of easy calculations he can check whether he still operates under safe circumstances. This process is called Scaling.





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Scaling advice

Type of ventilation

If the type of ventilation at the use site of a downstream user (DU) differs from the instructions in the ES, a linear correlation between the RCR (Inhalation) and the type of ventilation exists. Following scaling factors (f) apply: General ventilation (< 3 air changes per hour) =1; good general ventilation (3 to 5 air changes per hour, corresponds to outdoor use) = 0,7; enhanced general ventilation (> 5 air changes per hour) = 0,3.

RCR (DU) = f(DU) * RCR (as stated in ES) / f (type of ventilation stated in ES)

In the same manner a scaling for the efficiency of the local extract ventilation (LEV) can by applied.

Duration of use

If the duration of the use by a worker at a downstream user (DU) site differs from the instructions in the ES, a linear correlation between the RCR (Inhalation) and the duration of use exist. Following scaling factors (f) apply: duration > 4 hours/day = 1; duration: 1-4 hours/day = 0,6; duration: 15 min/day - 1 hour/day = 0,2; duration < 15 min/day = 0,1. RCR (DU) = f(DU) * RCR (as stated in ES) / f (duration in ES)

Concentration of the substance in the product

If the downstream user (DU) uses the substance in a different concentration than the one stated in the ES, a linear correlation between the RCR (Inhalation) and the RCR (dermal) and the concentration exists. Following scaling factors (f) apply: Concentration >25% =1; concentration >= 5% = 0.6; concentration >= 1% = 0.2; concentration < 1% = 0.1. RCR (DU) = f(DU) * RCR (as stated in ES) / f (concentration in ES).

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 - Worker

Used exposure estimation model for calculation of worker exposure	
Used exposure estimation model	EasyTRA Version 3.0
Link to exposure estimation tool	EASY TRA: http://www.easytra.de