

# Safety data sheet

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BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 21.12.2022

Version: 2.0

Date previous version: 15.12.2022

Previous version: 1.0

Date / First version: 15.12.2022

Product: **Na-Methylate sol. 30 %**

(ID no. 30036699/SDS\_GEN\_DE/EN)

Date of print 29.03.2023

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

## Na-Methylate sol. 30 %

UFI: WNPX-C240-J00S-QVF3

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: industrial chemicals

Recommended use: process chemical, Intermediate, catalyst

For the detailed identified uses of the product see appendix of the safety data sheet.

### 1.3. Details of the supplier of the safety data sheet

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Division Monomers

E-mail address: pss.monomers@basf.com

### 1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

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## SECTION 2: Hazards Identification

### 2.1. Classification of the substance or mixture

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

According to Regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 3	H226 Flammable liquid and vapour.
Met. Corr. 1	H290 May be corrosive to metals.
Acute Tox. 3 (Inhalation - vapour)	H331 Toxic if inhaled.
Acute Tox. 3 (oral)	H301 Toxic if swallowed.
Acute Tox. 3 (dermal)	H311 Toxic in contact with skin.
Skin Corr./Irrit. 1A	H314 Causes severe skin burns and eye damage.
Eye Dam./Irrit. 1	H318 Causes serious eye damage.
STOT SE 1	H370 Causes damage to organs.

According to BASF current knowledge and application of the criteria given in Annex I of Regulation (EC) No. 1272/2008, the following classification exceeding the classification given in Regulation (EC) No 1272/2008, Annex VI, Table 3.1 is required.

Skin Corr./Irrit. 1A

For the classifications not written out in full in this section the full text can be found in section 16.

### 2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Pictogram:



Signal Word:

Danger

Hazard Statement:

H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H370	Causes damage to organs.
H314	Causes severe skin burns and eye damage.
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P271	Use only outdoors or in a well-ventilated area.

Precautionary Statements (Response):

P310	Immediately call a POISON CENTER or physician.
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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary Statements (Storage):

P403 + P235 Store in a well-ventilated place. Keep cool.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

Hazard determining component(s) for labelling: sodium methanolate, methanol

### 2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

No specific dangers known, if the regulations/notes for storage and handling are considered.

The product does not contain a substance above legal limits fulfilling the PBT

(persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Chemical nature

Preparation based on: sodium methanolate, methanol

Regulatory relevant ingredients

methanol

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Content (W/W): $\geq 50\%$ - $< 75\%$	Flam. Liq. 2
CAS Number: 67-56-1	Acute Tox. 3 (Inhalation - vapour)
EC-Number: 200-659-6	Acute Tox. 3 (oral)
REACH registration number: 01-2119433307-44	Acute Tox. 3 (dermal)
INDEX-Number: 603-001-00-X	STOT SE (Central nervous system, Optic nerve) 1
	H225, H301 + H311 + H331, H370
	<u>Specific concentration limit:</u>
	STOT SE 2: 3 - $< 10\%$
	STOT SE 1: $\geq 10\%$
sodium methanolate	
Content (W/W): $\geq 25\%$ - $< 50\%$	Flam. Sol. 1
CAS Number: 124-41-4	Self-heat. 1
EC-Number: 204-699-5	Met. Corr. 1
REACH registration number: 01-2119519241-51	Acute Tox. 4 (oral)
INDEX-Number: 603-040-00-2	Skin Corr./Irrit. 1B
	Eye Dam./Irrit. 1
	H228, H290, H251, H302, H314
	EUH014
	<u>Differing classification according to current knowledge and the criteria given in Annex I of Regulation (EC) No. 1272/2008</u>
	Flam. Sol. 1
	Self-heat. 1
	Met. Corr. 1
	Acute Tox. 4 (oral)
	Skin Corr./Irrit. 1A
	Eye Dam./Irrit. 1
	EUH014
sodium hydroxide	
Content (W/W): $\geq 0\%$ - $< 1\%$	Met. Corr. 1
CAS Number: 1310-73-2	Skin Corr./Irrit. 1A
EC-Number: 215-185-5	Eye Dam./Irrit. 1
REACH registration number: 01-2119457892-27	H290, H314
INDEX-Number: 011-002-00-6	<u>Specific concentration limit:</u>
	Skin Corr./Irrit. 1A: $\geq 5\%$
	Skin Corr./Irrit. 1B: 2 - $< 5\%$
	Skin Corr./Irrit. 2: 0,5 - $< 2\%$
	Eye Dam./Irrit. 2: 0,5 - $< 2\%$

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

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## SECTION 4: First-Aid Measures

### 4.1. Description of first aid measures

First aid personnel should pay attention to their own safety. Immediately remove contaminated clothing. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200 - 300 ml water, do not induce vomiting, seek medical attention. Administer 50 ml of pure ethanol in a drinkable concentration. Seek medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms: skin corrosion, irritates the eyes and respiratory tract, blindness, Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

Hazards: No hazard is expected under intended use and appropriate handling.

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

Treatment: Symptomatic treatment (decontamination, vital functions).

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## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing media

Suitable extinguishing media:

dry powder, Dry sand, alcohol-resistant foam

Unsuitable extinguishing media for safety reasons:

water, carbon dioxide

### 5.2. Special hazards arising from the substance or mixture

Advice: Risk of exothermic reaction.

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### 5.3. Advice for fire-fighters

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Vapours are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Sealed containers should be protected against heat as this results in pressure build-up.

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## SECTION 6: Accidental Release Measures

Release of substance/product can cause fire or explosion.

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

Sources of ignition should be kept well clear. Use personal protective clothing. Avoid inhalation. Avoid contact with skin and eyes.

### 6.2. Environmental precautions

Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

### 6.3. Methods and material for containment and cleaning up

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Dispose of absorbed material in accordance with regulations.

### 6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

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## SECTION 7: Handling and Storage

### 7.1. Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Protect against moisture. Protect against heat.

Solidified/precipitated product can be redissolved with a non-igniting heat source provided that the formation of an atmosphere capable to explode is suppressed by inertization or sources of ignition are absent. A possible rise in pressure caused by evaporating solvent has to be taken into account.

Protection against fire and explosion:

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Avoid all sources of ignition: heat, sparks, open flame. Take precautionary measures against static discharges. Use antistatic tools. Render equipment and apparatus inert (nitrogen, inert gases) and ground before putting into operation. Fire extinguishers should be kept handy.

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

Segregate from acids and acid forming substances. Keep away from water.

Suitable materials for containers: Stove-lacquer KNS L-35, Carbon steel (Iron), Stainless steel 1.4401, Stainless steel 1.4301 (V2), High density polyethylene (HDPE), glass, Low density polyethylene (LDPE), Stainless steel 1.4541, Stainless steel 1.4571

Unsuitable materials for containers: Aluminium, Galvanized carbon steel (Zinc), Paper/Fibreboard

Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place. Keep under dry nitrogen. Protect against moisture. Protect against heat. Keep away from sources of ignition - No smoking.

Storage class according to TRGS 510 (originally VCI, Germany): (3) Flammable liquids

Protect from temperatures below: 7 °C

The product crystallizes below the limit temperature.

## 7.3. Specific end use(s)

See exposure scenario(s) in the attachment to this safety data sheet.

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## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control parameters

Components with occupational exposure limits

The surveillance of the workplace by exposure measurements may be necessary, in order to prove the efficiency of safety measures, for example ventilation or the need of respiratory protection. Since this requires a specific competency, only accredited laboratories should be contracted. Regarding suitable methods to assess inhalation exposure, the European Standards EN 482, 689 and 14042 are to be considered. In addition, the TRGS 402 has to be observed in Germany.

67-56-1: methanol

Skin Designation (OEL (EU))

The substance can be absorbed through the skin.

TWA value 260 mg/m<sup>3</sup> ; 200 ppm (OEL (EU))

indicative

Skin Designation (TRGS 900 (DE))

The substance can be absorbed through the skin.

Short Term Exposure Classification: (TRGS 900 (DE))

Category II: Substances with a resorptive effect

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OEL 130 mg/m<sup>3</sup> ; 100 ppm (TRGS 900 (DE))

Ceiling limit value/factor: 2

If the occupational exposure limit value (AGW) and the biological limit value (BGW) are complied with, there should be no risk of damage for the unborn child (see TRGS 900, Number 2.7)

#### Components with PNEC

##### 67-56-1: methanol

freshwater:

No hazard identified.

marine water:

No hazard identified.

intermittent release:

No hazard identified.

STP:

No hazard identified.

sediment (freshwater):

No hazard identified.

sediment (marine water):

No hazard identified.

soil:

No hazard identified.

##### 124-41-4: sodium methanolate

freshwater: 154 mg/l

marine water: 15,4 mg/l

intermittent release: 1540 mg/l

sediment (freshwater): 570,4 mg/kg

sediment (marine water): 57,04 mg/kg

soil: 23,5 mg/kg

STP: 100 mg/l

oral (secondary poisoning):

No PNEC oral derived, as accumulation in organisms is not to be expected.

#### Components with DNEL

##### 67-56-1: methanol

worker: Long-term exposure- systemic effects, dermal: 20 mg/kg

worker: Short-term exposure - systemic effects, dermal: 20 mg/kg

worker: Long-term exposure- systemic effects, Inhalation: 130 mg/m<sup>3</sup>

worker: Short-term exposure - systemic effects, Inhalation: 130 mg/m<sup>3</sup>

worker: Long-term exposure - local effects, Inhalation: 130 mg/m<sup>3</sup>

worker: Short-term exposure - local effects, Inhalation: 130 mg/m<sup>3</sup>

consumer: Long-term exposure- systemic effects, oral: 4 mg/kg

consumer: Short-term exposure - systemic effects, oral: 4 mg/kg

consumer: Long-term exposure- systemic effects, dermal: 4 mg/kg

consumer: Short-term exposure - systemic effects, dermal: 4 mg/kg

consumer: Long-term exposure- systemic effects, Inhalation: 26 mg/m<sup>3</sup>

consumer: Short-term exposure - systemic effects, Inhalation: 26 mg/m<sup>3</sup>



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consumer: Long-term exposure - local effects, Inhalation: 26 mg/m<sup>3</sup>  
consumer: Short-term exposure - local effects, Inhalation: 26 mg/m<sup>3</sup>

124-41-4: sodium methanolate

No DNELs have been derived.

1310-73-2: sodium hydroxide

worker: Long-term exposure - local effects, Inhalation: 1,0 mg/m<sup>3</sup>

## 8.2. Exposure controls

### Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

butyl rubber (butyl) - 0.7 mm coating thickness

fluoroelastomer (FKM) - 0.7 mm coating thickness

Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)

nitrile rubber (NBR) - 0.4 mm coating thickness

chloroprene rubber (CR) - 0.5 mm coating thickness

polyvinylchloride (PVC) - 0.7 mm coating thickness

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields (frame goggles) (f.e. EN 166) and face shield

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

### General safety and hygiene measures

Avoid contact with the skin, eyes and clothing. Do not breathe vapour/spray. Handle in accordance with good industrial hygiene and safety practice. Handle in accordance with good industrial hygiene and safety practice.

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## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

State of matter:	liquid	
Form:	liquid	
Colour:	colourless to yellowish	
Odour:	perceptible, of methanol	
Odour threshold:	Not determined since harmful by inhalation.	
crystallization temperature:	6,8 °C	
Boiling point:	92 °C (1.013 bar)	
Flammability:	Flammable liquid and vapour.	
Lower explosion limit:	(29,6 °C) The lower explosion point of the substance/mixture has been determined. The explosion point describes the temperature of a flammable liquid at which the concentration of the saturated vapour mixed with air equals the lower explosion limit.	(DIN EN 15794)
<i>Information on: methanol</i>		
Lower explosion limit:	5,5 %(V)	
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Upper explosion limit:	For liquids not relevant for classification and labelling.	
<i>Information on: methanol</i>		
Upper explosion limit:	36,5 %(V)	
-----		
Flash point:	33 °C	(DIN 51755)
Auto-ignition temperature:	No data available.	
<i>Information on: methanol</i>		
Auto-ignition temperature:	455 °C	
-----		
Thermal decomposition:	It is not a self-decomposable substance. Stable up to boiling point.	
pH value:	approx. 11	(ISO 1148)
Viscosity, kinematic:	No data available.	
Viscosity, dynamic:	64 mPa.s (20 °C)	

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Solubility in water: hydrolyzes  
(20 °C)

*Information on: methanol*

Partitioning coefficient *n*-octanol/water (log Kow): -0,77 (measured)  
(20 °C)

*Literature data.*

Vapour pressure: approx. 34 hPa  
(20 °C)  
approx. 150 hPa  
(50 °C)

Relative density:

No data available.

Density: 0,969 g/cm<sup>3</sup> (ISO 2811-3)  
(20 °C)

0,943 g/cm<sup>3</sup> (ISO 2811-3)  
(50 °C)

0,938 g/cm<sup>3</sup> (ISO 2811-3)  
(55 °C)

Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular form. -

**9.2. Other information****Information with regard to physical hazard classes**Explosives

Explosion hazard: not explosive

Oxidizing properties

Fire promoting properties: not fire-propagating

Corrosion to metals

Corrosive effect on metals.

**Other safety characteristics**

Radioactivity:

not radioactive for transport purposes

Miscibility with water:

Reacts with water.

Hygroscopy: hygroscopic

Evaporation rate:

No applicable information available.,  
Value can be approximated from  
Henry's Law Constant or vapor  
pressure.

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## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated., Strong exothermic reaction with acids., Vapours may form explosive mixture with air.

Corrosion to metals: Corrosive effect on metals.

### 10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Peroxides: The product/the substance has not a tendency towards the formation of peroxide.

### 10.3. Possibility of hazardous reactions

Exothermic reaction. Reacts with water and acids.

### 10.4. Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame. Avoid contact with air. Avoid moisture.

### 10.5. Incompatible materials

Substances to avoid:

Carbon dioxide, water, acids, substances with an acid reaction, light metals

### 10.6. Hazardous decomposition products

Hazardous decomposition products:

sodium hydroxide, methanol

## SECTION 11: Toxicological Information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Assessment of acute toxicity:

The toxicity of the product is based on its corrosivity.

*Information on: methanol*

*Assessment of acute toxicity:*

*Of high toxicity after single ingestion. Of high toxicity after short-term inhalation. Of high toxicity after short-term skin contact.*

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*Information on: sodium methanolate*

*Experimental/calculated data:*

*LD50 rat (oral): 1.687 mg/kg (OECD Guideline 401)*

*An aqueous solution was tested.*

*Information on: methanol*

*Experimental/calculated data:*

*LD50 rat (oral): > 1187 - 2769 mg/kg (BASF-Test)*

-----  
*Information on: methanol*

*Experimental/calculated data:*

*LC50 rat (by inhalation): 128 mg/l 4 h (BASF-Test)*

*The vapour was tested.*

-----  
*Information on: methanol*

*Experimental/calculated data:*

*LD50 rabbit (dermal): 17100 mg/kg (other)*

*Information on: sodium methanolate*

*Experimental/calculated data:*

*LD50 rat (dermal): > 2.000 mg/kg (BASF-Test)*

*No mortality was observed. An aqueous solution was tested.*

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Irritation

Experimental/calculated data:

Skin corrosion/irritation

rabbit: Corrosive. (BASF-Test)

Serious eye damage/irritation

rabbit: irreversible damage (BASF-Test)

Respiratory/Skin sensitization

Assessment of sensitization:

As the substance is corrosive, conducting sensitization studies is not feasible.

Experimental/calculated data:

Non-sensitizing. The product has not been tested. The statement has been derived from the properties of the individual components.

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### Germ cell mutagenicity

*Information on: sodium methanolate*

*Assessment of mutagenicity:*

*The substance was not mutagenic in bacteria. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.*

*Information on: methanol*

*Assessment of mutagenicity:*

*In the majority of studies performed with microorganisms and in mammalian cell culture, a mutagenic effect was not found. A mutagenic effect was also not observed in in vivo tests.*

### Carcinogenicity

*Information on: methanol*

*Assessment of carcinogenicity:*

*In long-term studies in rats and mice in which the substance was given by inhalation, a carcinogenic effect was not observed. In long-term animal studies in which the substance was given in the drinking water in high concentrations, a carcinogenic effect was observed. These effects are not relevant to humans at occupational levels of exposure.*

### Reproductive toxicity

*Information on: methanol*

*Assessment of reproduction toxicity:*

*The results of animal studies gave no indication of a fertility impairing effect.*

### Developmental toxicity

*Information on: methanol*

*Assessment of teratogenicity:*

*The results of animal studies gave indication of a developmental toxic/teratogenic effects with high doses.*

### Specific target organ toxicity (single exposure)

*Assessment of STOT single:*

A single exposure may have relevant toxic effects on organs named in section 2 of this safety data sheet.

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Remarks: No data available.

#### Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

The substance may cause blindness after repeated ingestion. The substance may cause blindness after repeated inhalation.

*Information on: methanol*

*Assessment of repeated dose toxicity:*

*The substance may cause blindness after repeated ingestion. The substance may cause blindness after repeated inhalation.*

#### Aspiration hazard

Toxic if swallowed.

#### Interactive effects

No data available.

### **11.2. Information on other hazards**

#### Endocrine disrupting properties

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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## **SECTION 12: Ecological Information**

### **12.1. Toxicity**

Assessment of aquatic toxicity:

The product has not been tested. The statement has been derived from the properties of the hydrolysis products.

*Information on: sodium hydroxide*

*Assessment of aquatic toxicity:*

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*Depending on local conditions and existing concentrations, disturbances in the biodegradation process of activated sludge are possible. There is a high probability that the product is not acutely harmful to aquatic organisms.*

*The effect strongly depends on the pH-value. The data refers to the dissociated form of the substance.*

*Information on: methanol*

*Assessment of aquatic toxicity:*

*There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.*

*There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.*

*Information on: sodium hydroxide*

*Toxicity to fish:*

*LC50 (96 h) 125 mg/l, Gambusia affinis (other, static)*

*The product will cause changes in the pH value of the test system. The result refers to an unneutralized sample. Literature data.*

*Information on: methanol*

*Toxicity to fish:*

*LC50 (96 h) 15.400 mg/l, Lepomis macrochirus (other, Flow through.)*

*Information on: sodium hydroxide*

*Aquatic invertebrates:*

*EC50 (48 h) 40,4 mg/l, Ceriodaphnia sp. (other, static)*

*Literature data.*

*Information on: methanol*

*Aquatic invertebrates:*

*EC50 (48 h) 18.260 mg/l, Daphnia magna (OECD Guideline 202, part 1, semistatic)*

*Information on: methanol*

*Aquatic plants:*

*EC50 (96 h) approx. 22.000 mg/l (growth rate), Selenastrum capricornutum (OECD Guideline 201, static)*

*Information on: methanol*

*Microorganisms/Effect on activated sludge:*

*EC50 (3 h) > 1.000 mg/l, (OECD Guideline 209, aquatic)*

*EC50 (24 h) 880 mg/l, Nitrosomonas sp. (Inhibition of nitrification, aquatic)*



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## 12.2. Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):

The product is unstable in water. The elimination data also refer to products of hydrolysis.

*Information on:sodium hydroxide*

*Assessment biodegradation and elimination (H<sub>2</sub>O):*

*Inorganic product which cannot be eliminated from water by biological purification processes.*

*Information on:methanol*

*Assessment biodegradation and elimination (H<sub>2</sub>O):*

*Readily biodegradable (according to OECD criteria).*

*Information on:methanol*

*Elimination information:*

*95 % BOD of the ThOD (20 d) (OECD 301D; EEC 92/69, C.4-E) (aerobic, activated sludge, domestic, non-adapted) Readily biodegradable (according to OECD criteria).*

## 12.3. Bioaccumulative potential

*Information on:methanol*

*Assessment bioaccumulation potential:*

*Significant accumulation in organisms is not to be expected.*

*Information on:sodium hydroxide*

*Assessment bioaccumulation potential:*

*Accumulation in organisms is not to be expected.*

## 12.4. Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: Adsorption to solid soil phase is not expected.

## 12.5. Results of PBT and vPvB assessment

The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

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## 12.6. Endocrine disrupting properties

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## 12.7. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

## 12.8. Additional information

Other ecotoxicological advice:

Due to the pH-value of the product, neutralization is generally required before discharging sewage into treatment plants. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. Do not release untreated into natural waters.

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## SECTION 13: Disposal Considerations

### 13.1. Waste treatment methods

Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

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## SECTION 14: Transport Information

### Land transport

ADR

UN number or ID number: UN1289

UN proper shipping name: SODIUM METHYLATE SOLUTION

Transport hazard class(es): 3, 8

Packing group: III

Environmental hazards: no

Special precautions for user: Tunnel code: D/E

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#### RID

UN number or ID number: UN1289  
UN proper shipping name: SODIUM METHYLATE SOLUTION

Transport hazard class(es): 3, 8  
Packing group: III  
Environmental hazards: no  
Special precautions for user: None known

#### Inland waterway transport

##### ADN

UN number or ID number: UN1289  
UN proper shipping name: SODIUM METHYLATE SOLUTION

Transport hazard class(es): 3, 8  
Packing group: III  
Environmental hazards: no  
Special precautions for user: None known

#### Transport in inland waterway vessel

UN number or ID number: UN1289  
UN proper shipping name: SODIUM METHYLATE SOLUTION

Transport hazard class(es): 3, 8  
Packing group: III  
Environmental hazards: no  
Type of inland waterway vessel: N  
Cargo tank design: 3  
Cargo tank type: 2

#### Sea transport

##### IMDG

UN number or ID number: UN 1289  
UN proper shipping name: SODIUM METHYLATE SOLUTION

Transport hazard class(es): 3, 8  
Packing group: III  
Environmental hazards: no

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Special precautions for user: Marine pollutant: NO  
EmS: F-E; S-C

### **Air transport**

IATA/ICAO

UN number or ID number: UN 1289  
UN proper shipping name: SODIUM METHYLATE SOLUTION

Transport hazard class(es): 3, 8  
Packing group: III  
Environmental hazards: No Mark as dangerous for the environment is needed  
Special precautions for user: None known

#### **14.1. UN number or ID number**

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

#### **14.2. UN proper shipping name**

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

#### **14.3. Transport hazard class(es)**

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

#### **14.4. Packing group**

See corresponding entries for "Packing group" for the respective regulations in the tables above.

#### **14.5. Environmental hazards**

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

#### **14.6. Special precautions for user**

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

#### **14.7. Maritime transport in bulk according to IMO instruments**

Regulation: IBC-Code

Product name: Sodium methylate 21-30% in methanol  
Pollution category: Y

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Ship Type: 2

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## SECTION 15: Regulatory Information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 3, 40, 69, 75

Hazardous Incident Ordinance (Germany):

List entry in regulation: 1.1.2

List entry in regulation: 1.1.3

List entry in regulation: 1.2.5.3

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):

List entry in regulation: H2

List entry in regulation: H3

List entry in regulation: P5c

Water hazard class (§8/§10 AwSV (Self-classification of the mixture according to calculation method)): (2) significantly water polluting.

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

### 15.2. Chemical Safety Assessment

Chemical Safety Assessment performed

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## SECTION 16: Other Information

Flam. Liq.	Flammable liquids
Met. Corr.	Corrosive to metals
Acute Tox.	Acute toxicity
Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
STOT SE	Specific target organ toxicity — single exposure
Flam. Sol.	Flammable solids
Self-heat.	Self-heating substances and mixtures
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H370	Causes damage to organs.

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H314	Causes severe skin burns and eye damage.
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled
H225	Highly flammable liquid and vapour.
H370	Causes damage to organs (Central nervous system, Optic nerve).
H228	Flammable solid.
H251	Self-heating: may catch fire.
H302	Harmful if swallowed.
EUH014	Reacts violently with water.

#### Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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## Annex: Exposure Scenarios

### Index

#### 1. Manufacture of substance

SU3; SU8, SU9; ERC1; PROC1, PROC8a, PROC8b, PROC9

#### 2. Use in/as Formulation, Formulation & (re)packing of substances and mixtures

SU3; SU10; ERC2; PROC1, PROC8a, PROC8b, PROC9

#### 3. Use in chemical synthesis

SU3; SU8, SU9; ERC6a; PROC1, PROC8a, PROC8b, PROC9; PC19

#### 4. Use as laboratory reagent/agent, Use in laboratories

SU22; SU24; ERC8a; PROC15; PC21

#### 5. Production of pharmaceutical products

SU3; SU0-1, SU3; ERC4; PROC2, PROC8a, PROC8b, PROC9; PC29

#### 6. Use as a Process chemical

SU3; SU8, SU9; ERC4; PROC1, PROC3, PROC4, PROC8a, PROC8b, PROC9; PC20

#### 7. Use as a Process chemical, Use in food products

SU3; SU4; ERC4; PROC1, PROC8a, PROC8b, PROC9; PC20

#### 8. Use as a Process chemical, Manufacturing of fuels

SU3; SU8; ERC4; PROC1, PROC8a, PROC8b, PROC9; PC13

\*\*\*\*\*

### 1. Short title of exposure scenario

Manufacture of substance

SU3; SU8, SU9; ERC1; PROC1, PROC8a, PROC8b, PROC9

### Control of exposure and risk management measures

Contributing exposure scenario	
<b>Use descriptors covered</b>	ERC1: Manufacture of the substance As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. PROC8a: Transfer of substance or

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	mixture (charging and discharging) at non-dedicated facilities PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	sodium methanolate Content: >= 0 % - <= 30 %
Physical state	Solid in solution
Duration and Frequency of activity	480 min 240 days per year
<b>Risk Management Measures</b>	
Provide extract ventilation to points where emissions occur (LEV).	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection. Wear suitable face shield Use suitable chemically resistant gloves. Wear suitable respiratory protection.	
Risk Management Measures are based on qualitative risk characterisation., Additionally:	
<b>Additional good practice advice</b>	
Personal measures are recommended in case of potential exposure only.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	



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<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,001714
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0134 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,000103
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, short-term - systemic
Exposure estimate	0,0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,001714
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	0,0534 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,000411
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol

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	Content: $\geq 0 \%$ - $\leq 100 \%$
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	33,377 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,256746
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: $\geq 0 \%$ - $\leq 100 \%$
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, worker, modified version

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	Worker - dermal, short-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	66,754 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,513492
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 95 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10,0131 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,077024
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial

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<b>Operational conditions</b>	
Concentration of the substance	methanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 95 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, worker, modified version
	Worker - dermal, short-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	20,0262 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,154048
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant	Effectiveness: 80 %

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gloves.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,068571
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	26,7016 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,205397
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, worker, modified version
	Worker - dermal, short-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,068571
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	53,4032 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,410794
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

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## 2. Short title of exposure scenario

Use in/as Formulation, Formulation & (re)packing of substances and mixtures  
SU3; SU10; ERC2; PROC1, PROC8a, PROC8b, PROC9

### Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC2: Formulation into mixture As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	sodium methanolate Content: >= 0 % - <= 30 %
Physical state	Solid in solution
Duration and Frequency of activity	480 min 240 days per year
<b>Risk Management Measures</b>	
Provide extract ventilation to points where emissions occur (LEV).	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection. Wear suitable face shield Use suitable chemically resistant gloves. Wear suitable respiratory protection.	
Risk Management Measures are based on qualitative risk characterisation., Additionally:	
<b>Additional good practice advice</b>	

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Personal measures are recommended in case of potential exposure only.

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,001714
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0134 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,000103
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	

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<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, short-term - systemic
Exposure estimate	0,0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,001714
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	0,0534 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,000411
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	33,377 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,256746
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial



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<b>Operational conditions</b>	
Concentration of the substance	methanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, worker, modified version
	Worker - dermal, short-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	66,754 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,513492
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 95 %

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Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10,0131 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,077024
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 95 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, worker, modified version
	Worker - dermal, short-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	20,0262 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,154048
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,068571
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	26,7016 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,205397
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	

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<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, worker, modified version
	Worker - dermal, short-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,068571
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	53,4032 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,410794
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

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### 3. Short title of exposure scenario

Use in chemical synthesis

SU3; SU8, SU9; ERC6a; PROC1, PROC8a, PROC8b, PROC9; PC19

### Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC6a: Use of intermediate As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	sodium methanolate Content: >= 0 % - <= 30 %

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Physical state	Solid in solution
Duration and Frequency of activity	480 min 240 days per year
<b>Risk Management Measures</b>	
Provide extract ventilation to points where emissions occur (LEV).	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection. Wear suitable face shield Use suitable chemically resistant gloves. Wear suitable respiratory protection.	
Risk Management Measures are based on qualitative risk characterisation., Additionally:	
<b>Additional good practice advice</b>	
Personal measures are recommended in case of potential exposure only.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,001714
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0134 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,000103

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<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	
<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, short-term - systemic
Exposure estimate	0,0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,001714
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	0,0534 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,000411
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	

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<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	33,377 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,256746
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, worker, modified version
	Worker - dermal, short-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	66,754 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,513492
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see	

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Product: **Na-Methylate sol. 30 %**

(ID no. 30036699/SDS\_GEN\_DE/EN)

Date of print 29.03.2023

exposure estimates)

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 95 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10,0131 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,077024
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week



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Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 95 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, worker, modified version
	Worker - dermal, short-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	20,0262 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,154048
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,068571
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	26,7016 mg/m <sup>3</sup>

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Risk Characterization Ratio (RCR)	0,205397
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, worker, modified version
	Worker - dermal, short-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,068571
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	53,4032 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,410794
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

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#### 4. Short title of exposure scenario

Use as laboratory reagent/agent, Use in laboratories  
SU22; SU24; ERC8a; PROC15; PC21

#### Control of exposure and risk management measures

<b>Contributing exposure scenario</b>
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<b>Use descriptors covered</b>	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	sodium methanolate Content: $\geq 0\%$ - $\leq 30\%$
Physical state	Solid in solution
Duration and Frequency of activity	480 min 240 days per year
<b>Risk Management Measures</b>	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Provide extract ventilation to points where emissions occur (LEV). Handle substance within closed system.	
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection. Wear suitable face shield Wear suitable gloves tested to EN ISO 374-1. Wear suitable respiratory protection.	
Risk Management Measures are based on qualitative risk characterisation., Additionally:	
<b>Additional good practice advice</b>	
Personal measures are recommended in case of potential exposure only.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa

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Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 80 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0686 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,003429
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	13,3508 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,102698
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 80 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, worker, modified version
	Worker - dermal, short-term - systemic
Exposure estimate	0,0686 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,003429
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	26,7016 mg/m <sup>3</sup>

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Risk Characterization Ratio (RCR)	0,205397
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

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## 5. Short title of exposure scenario

Production of pharmaceutical products

SU3; SU0-1, SU3; ERC4; PROC2, PROC8a, PROC8b, PROC9; PC29

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	sodium methanolate Content: >= 0 % - <= 30 %
Physical state	Solid in solution
Duration and Frequency of activity	480 min 240 days per year
<b>Risk Management Measures</b>	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Provide extract ventilation to points where emissions occur (LEV). Handle substance within closed system.	

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Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection. Wear suitable face shield Wear suitable gloves tested to EN ISO 374-1. Wear suitable respiratory protection.	
Risk Management Measures are based on qualitative risk characterisation., Additionally:	
<b>Additional good practice advice</b>	
Personal measures are recommended in case of potential exposure only.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic
Exposure estimate	0,2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,013714
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic
Exposure estimate	3,3377 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,025675
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or

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	processes with equivalent containment conditions Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, short-term - systemic
Exposure estimate	0,2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,013714
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	13,3508 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,102698
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %

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Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	33,377 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,256746
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, worker, modified version
	Worker - dermal, short-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	66,754 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,513492
<b>Guidance to Downstream Users</b>	
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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 95 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10,0131 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,077024
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.

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<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 95 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, worker, modified version
	Worker - dermal, short-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	20,0262 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,154048
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,068571
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	26,7016 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,205397
<b>Guidance to Downstream Users</b>	

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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, worker, modified version
	Worker - dermal, short-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,068571
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	53,4032 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,410794
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

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## 6. Short title of exposure scenario

Use as a Process chemical

SU3; SU8, SU9; ERC4; PROC1, PROC3, PROC4, PROC8a, PROC8b, PROC9; PC20

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

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Date / Revised: 21.12.2022

Version: 2.0

Date previous version: 15.12.2022

Previous version: 1.0

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Product: **Na-Methylate sol. 30 %**

(ID no. 30036699/SDS\_GEN\_DE/EN)

Date of print 29.03.2023

	As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition PROC4: Chemical production where opportunity for exposure arises PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	sodium methanolate Content: >= 0 % - <= 30 %
Physical state	Solid in solution
Duration and Frequency of activity	480 min 240 days per year
<b>Risk Management Measures</b>	
Provide extract ventilation to points where emissions occur (LEV).	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection. Wear suitable face shield Use suitable chemically resistant gloves. Wear suitable respiratory protection.	
Risk Management Measures are based on qualitative risk characterisation., Additionally:	
<b>Additional good practice advice</b>	
Personal measures are recommended in case of potential exposure only.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent

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	containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,001714
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0134 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,000103
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, short-term - systemic
Exposure estimate	0,0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,001714

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Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	0,0534 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,000411
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,006857
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	6,6754 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,051349
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial

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<b>Operational conditions</b>	
Concentration of the substance	methanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, short-term - systemic
Exposure estimate	0,1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,006857
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	26,7016 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,205397
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	

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Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,068571
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	13,3508 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,102698
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, short-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,068571
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	53,4032 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,410794
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial



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<b>Operational conditions</b>	
Concentration of the substance	methanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	33,377 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,256746
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	

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Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, worker, modified version
	Worker - dermal, short-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	66,754 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,513492
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 95 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10,0131 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,077024
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities

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	Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 95 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, worker, modified version
	Worker - dermal, short-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	20,0262 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,154048
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	

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Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,068571
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	26,7016 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,205397
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, worker, modified version
	Worker - dermal, short-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,068571
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	53,4032 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,410794
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

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## 7. Short title of exposure scenario

Use as a Process chemical, Use in food products

SU3; SU4; ERC4; PROC1, PROC8a, PROC8b, PROC9; PC20

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	sodium methanolate Content: $\geq 0\%$ - $\leq 30\%$
Physical state	Solid in solution
Duration and Frequency of activity	480 min 240 days per year
<b>Risk Management Measures</b>	
Provide extract ventilation to points where emissions occur (LEV).	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection. Wear suitable face shield Use suitable chemically resistant gloves. Wear suitable respiratory protection.	
Risk Management Measures are	

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based on qualitative risk characterisation., Additionally:	
<b>Additional good practice advice</b>	
Personal measures are recommended in case of potential exposure only.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,001714
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0134 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,000103
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, short-term - systemic
Exposure estimate	0,0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,001714
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	0,0534 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,000411
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	33,377 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,256746
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>
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Product: **Na-Methylate sol. 30 %**

(ID no. 30036699/SDS\_GEN\_DE/EN)

Date of print 29.03.2023

<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, worker, modified version
	Worker - dermal, short-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	66,754 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,513492
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor



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	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 95 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic
Exposure estimate	10,0131 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,077024
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 95 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, worker, modified version Worker - dermal, short-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker Worker - inhalation, short-term - systemic
Exposure estimate	20,0262 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,154048
<b>Guidance to Downstream Users</b>	

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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,068571
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	26,7016 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,205397
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, worker, modified version
	Worker - dermal, short-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,068571
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	53,4032 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,410794
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

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## 8. Short title of exposure scenario

Use as a Process chemical, Manufacturing of fuels  
SU3; SU8; ERC4; PROC1, PROC8a, PROC8b, PROC9; PC13

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial

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<b>Operational conditions</b>	
Concentration of the substance	sodium methanolate Content: $\geq 0\%$ - $\leq 30\%$
Physical state	Solid in solution
Duration and Frequency of activity	480 min 240 days per year
<b>Risk Management Measures</b>	
Provide extract ventilation to points where emissions occur (LEV).	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection. Wear suitable face shield Use suitable chemically resistant gloves. Wear suitable respiratory protection.	
Risk Management Measures are based on qualitative risk characterisation., Additionally:	
<b>Additional good practice advice</b>	
Personal measures are recommended in case of potential exposure only.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic
Exposure estimate	0,0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,001714

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Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0134 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,000103
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, short-term - systemic
Exposure estimate	0,0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,001714
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	0,0534 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,000411
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa

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Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	33,377 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,256746
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, worker, modified version
	Worker - dermal, short-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic

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Exposure estimate	66,754 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,513492
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 95 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10,0131 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,077024
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid

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Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 95 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, worker, modified version
	Worker - dermal, short-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,137143
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	20,0262 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,154048
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day



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Date of print 29.03.2023

Risk Characterization Ratio (RCR)	0,068571
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	26,7016 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,205397
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	methanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	16927 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, worker, modified version
	Worker - dermal, short-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,068571
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, short-term - systemic
Exposure estimate	53,4032 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,410794
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

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