



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

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

1.1 Product identifier

Trade name **METHANOL**

CAS Number:

67-56-1

EC number:

200-659-6

Index number:

603-001-00-X

Registration number 01-211943307-44-0169

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

Life cycle stages IS Use at industrial Sites

Application of the substance / the preparation:

Solvents

chemicals for synthesis

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Atlantic Methanol Services B.V.

Zuidplein 126, WTC Tower H, 15th Floor

1077XV Amsterdam

Netherlands

Telephone: +31 20 240 3080

Website: www.atlanticmethanol.com

Informing department: Product Safety Department

1.4 Emergency telephone number:

phone: 281-323-5588

Emergency Contact Numbers for AMPCO Marketing, L.L.C.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 3 H311 Toxic in contact with skin.

Acute Tox. 3 H331 Toxic if inhaled.

STOT SE 1 H370 Causes damage to the eyes. Route of exposure: Oral, Inhalation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02



GHS06



GHS08

Signal word Danger

Hazard statements

H225 Highly flammable liquid and vapour.

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.

(Contd. on page 2)

GB



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 1)

H370 Causes damage to the eyes. Route of exposure: Oral, Inhalation.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P243 Take action to prevent static discharges.

P261 Avoid breathing vapours.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards**Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients**3.1 Chemical characterisation: Substances****CAS No. Designation:**

67-56-1 methanol

Identification number(s):

EC number: 200-659-6

Index number: 603-001-00-X

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

Instantly remove any clothing soiled by the product.

Remove breathing apparatus only after soiled clothing has been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

After inhalation

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness bring patient into stable side position for transport.

After skin contact Instantly wash with water and soap and rinse thoroughly.

After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.

After swallowing

Rinse out mouth and then drink plenty of water.

Induce vomiting, only if person affected is fully conscious.

Seek medical treatment.

Do not induce vomiting; instantly call for medical help.

4.2 Most important symptoms and effects, both acute and delayed

Headache

Dazed

Dizziness

Sensitivity to light

(Contd. on page 3)

GB



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

Unconsciousness

(Contd. of page 2)

Danger Danger of system failure.**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Can be released in case of fire:

carbon monoxide (CO)

carbon dioxide (CO₂)Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Protective equipment:

Wear self-contained breathing apparatus.

Wear full protective suit.

Do not inhale explosion gases or combustion gases.

Put on breathing apparatus.

Additional information

Cool endangered containers with water spray.

Use large quantities of foam as it is partially destroyed by the product.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep people at a distance and stay on the windward side.

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources

6.2 Environmental precautions:

Prevent from spreading (e.g. by damming-in or oil barriers).

Damp down gases/fumes/haze with water spray jet.

Prevent material from reaching sewage system, holes and cellars.

Dilute with much water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

Dispose of contaminated material as waste according to chapter 13.

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not use for cleaning purposes.

Ensure good ventilation/exhaustion at the workplace.

(Contd. on page 4)

GB



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name **METHANOL**

(Contd. of page 3)

Open and handle container with care.

Use only in well ventilated areas.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Information about protection against explosions and fires:

Product is combustible

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep away from combustible materials, open flames and all sources of heat.

Keep breathing equipment ready.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and containers:

Store only in the original container.

Use only containers specifically permitted for this substance/product.

Prevent any penetration into the ground.

Store in cool location.

Information about storage in one common storage facility: Store away from oxidising agents.

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

Protect from heat and direct sunlight.

Store in a locked cabinet or with access restricted to technical experts or their assistants.

Storage class 3

7.3 Specific end use(s)

Ensure that all local regulations regarding handling and storage facilities are followed.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical systems: No further data; see chapter 7.

8.1 Control parameters

Components with critical values that require monitoring at the workplace:

67-56-1 methanol

WEL	Short-term value: 333 mg/m ³ , 250 ppm
	Long-term value: 266 mg/m ³ , 200 ppm
Sk	

DNELs

67-56-1 methanol

DNEL	20 mg/cm ³ (long-term dermal worker systemic)
	20 mg/cm ³ (short-term dermal worker systemic)
DNEL	26 mg/m ³ (long-term inhalativ consumer systemic)
	130 mg/m ³ (long-term inhalativ worker systemic)
	130 mg/m ³ (long-term inhalativ worker local)
	26 mg/m ³ (long-term inhalativ consumer local)
	26 mg/m ³ (short-term inhalativ consumer local)
	26 mg/m ³ (short-term inhalativ consumer systemic)
	130 mg/m ³ (short-term inhalativ worker local)
DNEL	4 mg/kg/day (long-term oral consumer systemic)
	4 mg/kg/day (long-term oral consumer local)

(Contd. on page 5)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 4)

4 mg/kg/day (long-term dermal consumer systemic)
 20 mg/kg/day (long-term dermal worker systemic)
 4 mg/kg/day (short-term dermal consumer local)

PNECs

67-56-1 methanol

PNEC	20.8 mg/l (freshwater) assessment factor: 10 1,540 mg/l (intermittent release) 77 mg/l (sediment - freshwater) 100 mg/l (sewage treatment plant) assessment factor: 10 2.08 mg/l (marine water) assessment factor: 100
PNEC	7.7 mg/kg (sediment - marine water) 100 mg/kg (soil) assessment factor: 10

Additional information: The lists that were valid during the compilation were used as basis.

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures

Keep away from foodstuffs, beverages and food.
 Instantly remove any soiled and impregnated garments.
 Wash hands during breaks and at the end of the work.
 Store protective clothing separately.
 Avoid contact with the eyes and skin.

Breathing equipment:

Use breathing protection with high concentrations.
 Short term filter device:
 Filter AX.

Protection of hands:

Material of gloves

Where hand contact with the material, the use of gloves, tested according to EN 174, adequate protection. The gloves should have been tested in any case for its specific suitability (eg chemical resistance, mechanical resistance, product compatibility and antistatic properties). Statements and information of the glove supplier on use, storage, care and replacement of protective gloves. The gloves should be replaced if damaged or worn away. Arbeitsorganage designed so as to avoid permanent gloves

Penetration time of glove material

The protective gloves to be used must comply with the specifications of EC-Directive 89/686/EG and the related standard EN374, for example KCL 898 Butoject® (full contact), KCL 890 Vitoject® (splash contact).
 The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable:

Butyl rubber
 Full contact:
 Glove thickness: ≥ 0.7 mm
 Breakthrough time: ≥ 480 min

(Contd. on page 6)

GB



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 5)

As protection from splashes gloves made of the following materials are suitable:

Fluorocarbon rubber (Viton)

Splash contact:

Glove thickness: ≥ 0.7 mmBreak through time: ≥ 120 min**Eye protection:**

Tightly sealed safety glasses (EN 166)

Body protection:

Protective work clothing: DIN EN 13034

Flame retardant antistatic protective clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties**General Information****Appearance:**

Form:	Fluid
Colour:	Colourless
Smell:	Alcohol-like
Odour threshold:	10-20000 ppm

pH-value:	Not determined.
------------------	-----------------

Change in condition

Melting point/freezing point:	-97.8 °C (101325 Pa)
Initial boiling point and boiling range:	64.7 °C (101325 Pa)

Flash point:	9.7 °C (101325 Pa)
---------------------	--------------------

Ignition temperature:	420 °C (101325 Pa)
------------------------------	--------------------

Explosive properties:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
------------------------------	---

Critical values for explosion:

Lower:	5.5 Vol %
Upper:	44 Vol %

Vapour pressure at 25 °C:	169.27 hPa
----------------------------------	------------

Density at 20 °C	0.79 g/cm ³
Vapour density at 20 °C	1.1

Solubility in / Miscibility with

Water:	Fully miscible
---------------	----------------

Partition coefficient: n-octanol/water:

67-56-1	methanol	-0,77	log POW
---------	----------	-------	---------

(Contd. on page 7)

GB



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name **METHANOL**

(Contd. of page 6)

Viscosity:**dynamic at 25 °C:**

0.544-0.59 mPas

9.2 Other informationRefractive Index n_D^{20} : 1.3357

Minimum ignition energy: 0.2 mJ (VDI 2263)

Evaporation rate: 6.3

Electrical conduction (σ): 1.5×10^{-7} S/m , 20 °C

Surface tension: 22.6 mN/m (20 °C) (- g/l) - OECD 115, EC A.5

Maximum explosion pressure: 7.4 bar, - g/m³ / 20 °C

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.**10.2 Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised

Reacts with strong oxidizing agents

10.4 Conditions to avoid Heat, flames, sparks and other sources of ignition**10.5 Incompatible materials:** No further relevant information available.**10.6 Hazardous decomposition products:**carbon monoxide (CO) and carbon dioxide (CO₂)nitrogen oxides (NO_x)

Irritant gases/vapours

SECTION 11: Toxicological information

11.1 Information on toxicological effects**Acute toxicity**

Toxic if swallowed, in contact with skin or if inhaled.

LD/LC50 values that are relevant for classification:

Oral	LD50	5,628 mg/kg (rat, male/female)
Dermal	LD50	15,800 mg/kg (rabbit, male/female)
Inhalative	LC50/4h	83.8 mg/l (rat, male/female)

67-56-1 methanol

Oral	LD50	7,300 mg/kg (mouse) (IUCLID)
		≥2,528 mg/kg (rat, male/female) (OECD 401)
Dermal	LDLo	143 mg/kg (human) (IUCLID)
	LD50	17,100 mg/kg (rabbit, male/female)
Inhalative	LC50/6h	43.68 mg/l (cat)
		von Burg, R., 1994, J. Appl. Toxicol. 14(4): 309-313
	LC0/4h	128.2 mg/l (rat, male/female)

Primary irritant effect:**Skin corrosion/irritation** Actively to skin for extraction of fat.**Serious eye damage/irritation** Based on available data, the classification criteria are not met.

(Contd. on page 8)

GB



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 7)

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Other information (about experimental toxicology):

67-56-1 methanol

Oral	LOAEL	2,340 mg/kg/d (rat, male)
	LOAEL	1.3 mg/l (rat, male/female) (OECD 453) (365d)
	NOAEL	6.66 mg/l (rat, male/female) (OECD 412) (28d)

Subacute to chronic toxicity:

salmonella typhimurium (OECD 471): negative

Mammalian animal (OECD 474): negative

Mammalian animal (OECD 476): negative

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure

Causes damage to the eyes. Route of exposure: Oral, Inhalation.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

67-56-1 methanol

LC50	28,000 mg/l (alburnus alburnus) (IUCLID) (96h)
	20,000 mg/l (freshwater fish) (IUCLID) (96h)
	15,500 mg/l (lepomis macrochirus) (IUCLID)
	20,100 mg/l (oncorhynchus mykiss) (IUCLID) (96h)
	29,400 mg/l (pimephales promelas) (IUCLID) (96h)
EC5	6,600 mg/l (pseudomonas putida) (IUCLID) (16h)
EC50	>10,000 mg/l (daphnia magna) (IUCLID)
	157 mg/l (photobacterium phosphoreum) (IUCLID) (5')
	18,756.34 mg/l (tetrahymen pyriformis) (IUCLID) (48h)

12.2 Persistence and degradability No further relevant information available.

Other information:

OECD 301D: 99 % / 30 d / -

The product is easily biodegradable.

12.3 Bioaccumulative potential Bioaccumulation is not expected.

12.4 Mobility in soil No further relevant information available.

(Contd. on page 9)

GB



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name **METHANOL**

(Contd. of page 8)

Other information

CSB: 1,420 mg/mg

BSB: 600-1120 mg/g (5d)

ThSB: 1500 mg/mg

Additional ecological information:**COD-value:** 1420 mg/g EEC 84/449**BSB5-value:** 1,12 g O₂/g**General notes:**

Water hazard class 2 (Assessment by list): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

Terrestrial toxicity:**67-56-1 methanol**

LC50	>1,000 mg/l (eisenia foetida) IUCLID (48h)
NOEC	10,000 mg/kg (eisenia andrei) (63d)
	1,000 mg/kg (folsomia candida) (28d)
	1,555 mg/kg (hordeum vulgare) (14d)
	1,555 mg/kg (medicago sativa) (21d)

12.5 Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects** No further relevant information available.**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Recommendation**

Waste material must be disposed of in accordance with Directive 2008/98/EC as well as national and local regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 02 00	wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 08*	other still bottoms and reaction residues
HP3	Flammable
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP6	Acute Toxicity

Uncleaned packagings:**Recommendation:** Disposal must be made according to official regulations.

(Contd. on page 10)

GB



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

Recommended cleaning agent: Water, if necessary with cleaning agent.

(Contd. of page 9)

SECTION 14: Transport information

14.1 UN-Number
ADR/RID/ADN, IMDG, IATA UN1230

14.2 UN proper shipping name
ADR/RID/ADN UN 1230 METHANOL 3, (6.1), II
IMDG, IATA METHANOL

14.3 Transport hazard class(es)
ADR/RID/ADN



Class 3 Flammable liquids.
Label 3+6.1

IMDG



Class 3 Flammable liquids.
Label 3/6.1

IATA



Class 3 Flammable liquids.
Label 3 (6.1)

14.4 Packing group
ADR/RID/ADN, IMDG, IATA II

14.5 Environmental hazards:
Marine pollutant: No

14.6 Special precautions for user Warning: Flammable liquids.
Kemler Number: 336
EMS Number: F-E,S-D

14.7 Transport in bulk according to Annex II of
Marpol and the IBC Code not applicable.

(Contd. on page 11)

GB



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 10)

Transport/Additional information:**ADR/RID/ADN****Limited quantities (LQ)**

1L

Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

Transport category

2

Tunnel restriction code

D/E

IMDG**Limited quantities (LQ)**

1L

Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

UN "Model Regulation":

UN1230, METHANOL, 3 (6.1), II

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Directive 2012/18/EU****Named dangerous substances - ANNEX I** Substance is not listed.**Seveso category**

H2 ACUTE TOXIC

P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t**Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 69**National regulations****Technical instructions (air):**

Class	Share in %
III	100.0

Water hazard class: Water hazard class 2 (Assessment by list): hazardous for water.**15.2 Chemical safety assessment:** A chemical safety assessment has been carried out.**SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing data specification sheet: Product Safety Department**Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

(Contd. on page 12)

GB



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 3: Acute toxicity - oral – Category 3
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

(Contd. of page 11)

GB

(Contd. on page 13)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 12)

Annex: Exposure scenario 1

Short title of the exposure scenario

ES 1: Consumer use of cleaning agents and de-icer (liquid products)

Sector of Use SU21 Consumer uses: Private households / general public / consumers**Product category**

PC4 Anti-Freeze and de-icing products

PC35 Washing and cleaning products (including solvent based products)

Environmental release category

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

Conditions of use Customary application according to section 1.**Duration and frequency**

≤ 104 times per year

Inhalation: duration of exposition 240 min, duration of use 20 min

Environment

Indoor and outdoor applications

The product may not be released into the environment without control.

Physical parameters**Physical state** Fluid**Concentration of the substance in the mixture**

Raw material.

Concentration of the substance in the mixture: ≤ 2.5 %

Used amount per time or activity

Inhalation: 100 g

Dermal: 5 g

Other operational conditions Observe the normal safety regulations when handling chemicals**Other operational conditions affecting environmental exposure**

Observe section 6 of the Safety Data Sheet (Accidental release measures).

Other operational conditions affecting worker exposure

Keep away from food, drink and animal feedingstuffs.

Avoid contact with the skin and eyes.

Keep windows open during application to ensure natural ventilation.

Indoor application.

Outdoor application.

Do not breathe gas/vapour/aerosol.

Keep away from sources of ignition - No smoking.

Covers use at ambient temperatures: max. 20 °C

Other operational conditions affecting consumer exposure

Keep out of the reach of children.

Oral absorption is not expected.

Inhalation:

Room size 58 m²

Air changes per hour 0.5

Temperature: 20 °C

Release area:: 5.00 x 10⁴ cm²

Dermal:

Potentially exposed skin surface: 1900 cm²

Absorption: 100 %

Other operational conditions affecting consumer exposure during the use of the product

The directions for use must indicate the limits for proper use.

(Contd. on page 14)

GB



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 13)

Risk management measures**Worker protection****Organisational protective measures** No special measures required.**Technical protective measures** Ensure that suitable extractors are available on processing machines.**Personal protective measures**

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Measures for consumer protection

Ensure adequate labelling.

Keep locked up and out of the reach of children.

Environmental protection measures

Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet.

Water Do not allow to reach ground water, water bodies or sewage system.**Soil** Avoid contact with soil and / or ground water during the application.**Notes** In case of unintended release of the product: See section 6 of the Safety Data Sheet.**Disposal measures**

Disposal must be made according to official regulations.

Ensure that waste is collected and contained.

Disposal procedures

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Waste type Partially emptied and uncleaned packaging**Exposure estimation****Worker (oral)**

The highest oral exposure to be expected is 4 mg / kg / day.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.**Worker (dermal)**

The highest dermal exposure to be expected is 20 mg / kg / day.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.**Worker (inhalation)**The highest inhalative exposure to be expected is 130 mg/m³.Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.**Environment**

The highest environmental exposure to be expected in purification plants is 100 mg / L.

The highest environmental exposure to be expected for surface waters is 77 mg / L.

The highest environmental exposure to be expected for soil is 100 mg / kg wet weight.

Consumer Not relevant for this Exposure Scenario.**Guidance for downstream users** No further relevant information available.

GB

(Contd. on page 15)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 14)

Annex: Exposure scenario 2

Short title of the exposure scenario

ES 2: Consumer use of cleaning agents and de-icer (spray products)

Sector of Use SU21 Consumer uses: Private households / general public / consumers**Product category**

PC4 Anti-Freeze and de-icing products

PC35 Washing and cleaning products (including solvent based products)

Environmental release category

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

Conditions of use Customary application according to section 1.**Duration and frequency**

Cleaning:

Inhalation: duration of exposition 60 min, duration of use 10 min

Spraying:

Inhalation: duration of exposition 24.6 s, duration of use 24.6 s

Environment

Indoor and outdoor applications

The product may not be released into the environment without control.

Physical parameters**Physical state** Fluid**Concentration of the substance in the mixture**

Raw material.

Concentration of the substance in the mixture: $\leq 5\%$ **Used amount per time or activity**

Cleaning:

Inhalation: 16.2 g

Dermal: 0.160 g

Other operational conditions Observe the normal safety regulations when handling chemicals**Other operational conditions affecting environmental exposure**

Observe section 6 of the Safety Data Sheet (Accidental release measures).

Other operational conditions affecting worker exposure

Keep away from food, drink and animal feedingstuffs.

Avoid contact with the skin and eyes.

Keep windows open during application to ensure natural ventilation.

Indoor application.

Outdoor application.

Do not breathe gas/vapour/aerosol.

Keep away from sources of ignition - No smoking.

Covers use at ambient temperatures: max. 20 °C

Other operational conditions affecting consumer exposure

Keep out of the reach of children.

Oral absorption is not expected.

Inhalation:

Room size 15 m²

Air changes per hour 2.5

Temperature: 20 °C

Cleaning:

Skin surface potentially exposed: 215 cm²

(Contd. on page 16)

GB



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 15)

Spraying:

Skin surface potentially exposed: 960 cm²**Other operational conditions affecting consumer exposure during the use of the product**

The directions for use must indicate the limits for proper use.

Risk management measures**Worker protection****Organisational protective measures** No special measures required.**Technical protective measures**

Ensure that suitable extractors are available on processing machines.

Ensure that suitable extractors are available on processing machines (not less than 3 - 5 air changes per hour).

Personal protective measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Measures for consumer protection

Ensure adequate labelling.

Keep locked up and out of the reach of children.

Environmental protection measures

Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet.

Water Do not allow to reach ground water, water bodies or sewage system.**Soil** Avoid contact with soil and / or ground water during the application.**Notes** In case of unintended release of the product: See section 6 of the Safety Data Sheet.**Disposal measures**

Disposal must be made according to official regulations.

Ensure that waste is collected and contained.

Disposal procedures

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Waste type Partially emptied and uncleaned packaging**Exposure estimation****Worker (oral)**

The highest oral exposure to be expected is 4 mg / kg / day.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.**Worker (dermal)**

The highest dermal exposure to be expected is 20 mg / kg / day.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.**Worker (inhalation)**The highest inhalative exposure to be expected is 130 mg/m³.Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.**Environment**

The highest environmental exposure to be expected in purification plants is 100 mg / L.

The highest environmental exposure to be expected for surface waters is 77 mg / L.

The highest environmental exposure to be expected for soil is 100 mg / kg wet weight.

Consumer Not relevant for this Exposure Scenario.**Guidance for downstream users** No further relevant information available.

GB

(Contd. on page 17)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 16)

Annex: Exposure scenario 3

Short title of the exposure scenario

ES 3: Consumer use of fuels indoors (domestic/hobby use e.g in model engines, fuel cells, fondue sets)

Sector of Use SU21 Consumer uses: Private households / general public / consumers**Product category** PC13 Fuels**Environmental release category**

ERC8b Widespread use of reactive processing aid (no inclusion into or onto article, indoor)

Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

Conditions of use Customary application according to section 1.**Duration and frequency**

2 days per week

Inhalation: duration of exposition 10 min, duration of use 10 min

Dermal: duration of release: 10 min

Environment

Outdoor use

Indoor use

The product may not be released into the environment without control.

Physical parameters**Physical state** Fluid**Concentration of the substance in the mixture**

Raw material.

Concentration of the substance in the mixture: $\leq 80\%$ **Used amount per time or activity** Inhalation: 800 g**Other operational conditions** Observe the normal safety regulations when handling chemicals**Other operational conditions affecting environmental exposure**

Observe section 6 of the Safety Data Sheet (Accidental release measures).

Other operational conditions affecting worker exposure

Keep away from food, drink and animal feedingstuffs.

Avoid contact with the skin and eyes.

Respiratory protection is required in work areas with inadequate ventilation and during spraying application.

Indoor application.

Do not breathe gas/vapour/aerosol.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

Other operational conditions affecting consumer exposure

Keep out of the reach of children.

Oral absorption is not expected.

Inhalation:

Room size 20 m²

Air changes per hour 0.5

Temperature: 20 °C

Release area: 2 cm²

Dermal:

Potentially exposed skin surface: 430 cm²

Absorption: 100 %

Other operational conditions affecting consumer exposure during the use of the product

The directions for use must indicate the limits for proper use.

(Contd. on page 18)

GB



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 17)

Risk management measures**Worker protection****Personal protective measures**

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Measures for consumer protection

Ensure adequate labelling.

Keep locked up and out of the reach of children.

Concentrations: ≥ 9 - ≤ 80 weight-%

Efficiency of protective gloves: ≥ 90 %

Environmental protection measures

Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet.

Water Do not allow to reach ground water, water bodies or sewage system.

Soil Avoid contact with soil and / or ground water during the application.

Notes In case of unintended release of the product: See section 6 of the Safety Data Sheet.

Disposal measures

Disposal must be made according to official regulations.

Ensure that waste is collected and contained.

Disposal procedures

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Waste type Partially emptied and uncleaned packaging

Exposure estimation**Worker (oral)**

The highest oral exposure to be expected is 4 mg / kg / day.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (dermal)

The highest dermal exposure to be expected is 20 mg / kg / day.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (inhalation)

The highest inhalative exposure to be expected is 130 mg/m³.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Environment

The highest environmental exposure to be expected in purification plants is 100 mg / L.

The highest environmental exposure to be expected for surface waters is 77 mg / L.

The highest environmental exposure to be expected for soil is 100 mg / kg wet weight.

Consumer

The highest dermal exposure to be expected for consumers is 4 mg / kg / day.

The highest inhalative exposure to be expected for consumers is 26 ppm.

The highest oral exposure to be expected for consumers is 4 mg / kg / day.

GB

(Contd. on page 19)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 18)

Annex: Exposure scenario 4

Short title of the exposure scenario ES 4: Consumer use of fuels outdoors (gasoline additive)

Sector of Use SU21 Consumer uses: Private households / general public / consumers

Product category PC13 Fuels

Environmental release category

ERC8e Widespread use of reactive processing aid (no inclusion into or onto article, outdoor)

Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

Conditions of use Customary application according to section 1.

Duration and frequency

2 days per week

Inhalation: duration of exposition 10 min, duration of use 10 min

Inhalation: 5.00×10^4 g

Dermal: duration of release: 10 min

Environment

Outdoor use

The product may not be released into the environment without control.

Physical parameters

Physical state Fluid

Concentration of the substance in the mixture

Raw material.

Concentration of the substance in the mixture: ≤ 3 %

Used amount per time or activity

Inhalation: 5.00×10^4 g

Dermal: 10 g

Other operational conditions Observe the normal safety regulations when handling chemicals

Other operational conditions affecting environmental exposure

Observe section 6 of the Safety Data Sheet (Accidental release measures).

Other operational conditions affecting worker exposure

Keep away from food, drink and animal feedingstuffs.

Avoid contact with the skin and eyes.

Indoor application.

Outdoor application.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

Other operational conditions affecting consumer exposure

Keep out of the reach of children.

Oral absorption is not expected.

Inhalation:

Room size 20 m²

Air changes per hour 0.5

Temperature: 20 °C

Release area: 2 cm²

Dermal:

Potentially exposed skin surface: 430 cm²

Absorption: 100 %

Other operational conditions affecting consumer exposure during the use of the product

The directions for use must indicate the limits for proper use.

Risk management measures

Worker protection

Organisational protective measures No special measures required.

(Contd. on page 20)

GB



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 19)

Technical protective measures

Ensure good ventilation/exhaustion at the workplace.
Provide explosion-proof electrical equipment.
Ensure that suitable extractors are available on processing machines.
Ensure that suitable extractors are available on processing machines (not less than 3 - 5 air changes per hour).

Personal protective measures

Do not inhale gases / fumes / aerosols.
Avoid contact with the skin.

Measures for consumer protection

Ensure adequate labelling.
Keep locked up and out of the reach of children.
Concentrations: $\geq 9 - \leq 80$ weight-%
Efficiency of protective gloves: ≥ 90 %

Environmental protection measures

Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet.

Water Do not allow to reach ground water, water bodies or sewage system.

Soil Avoid contact with soil and / or ground water during the application.

Notes In case of unintended release of the product: See section 6 of the Safety Data Sheet.

Disposal measures

Disposal must be made according to official regulations.
Ensure that waste is collected and contained.

Disposal procedures

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Waste type Partially emptied and uncleaned packaging

Exposure estimation**Worker (oral)**

The highest oral exposure to be expected is 4 mg / kg / day.
Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (dermal)

The highest dermal exposure to be expected is 20 mg / kg / day.
Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (inhalation)

The highest inhalative exposure to be expected is 130 mg/m³.
Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Environment

The highest environmental exposure to be expected in purification plants is 100 mg / L.
The highest environmental exposure to be expected for surface waters is 77 mg / L.
The highest environmental exposure to be expected for soil is 100 mg / kg wet weight.

Consumer

The highest dermal exposure to be expected for consumers is 4 mg / kg / day.
The highest inhalative exposure to be expected for consumers is 26 ppm.
The highest oral exposure to be expected for consumers is 4 mg / kg / day.

GB

(Contd. on page 21)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 20)

Annex: Exposure scenario 5

Short title of the exposure scenario ES 5: Distribution of the substance

Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

Process category

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled 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 mixture into small containers (dedicated filling line, including weighing)

Environmental release category

ERC1 Manufacture of the substance

ERC2 Formulation into mixture

Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

Conditions of use Customary application according to section 1.

Duration and frequency 8hrs (full working shift).

Environment

Outdoor use

Indoor use

The product may not be released into the environment without control.

Physical parameters

Physical state Fluid

Concentration of the substance in the mixture

Raw material.

Concentration of the substance in the mixture: $\leq 100\%$

Other operational conditions Observe the normal safety regulations when handling chemicals

Other operational conditions affecting environmental exposure

Observe section 6 of the Safety Data Sheet (Accidental release measures).

Other operational conditions affecting worker exposure

Keep away from food, drink and animal feedingstuffs.

Avoid contact with the skin and eyes.

Respiratory protection is required in work areas with inadequate ventilation and during spraying application.

Indoor application.

Outdoor application.

Avoid contact with the skin.

Do not breathe gas/vapour/aerosol.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

Covers use at ambient temperatures: max. 20 °C

Deploy only trained chemical workers

Other operational conditions affecting consumer exposure

Keep out of the reach of children.

Oral absorption is not expected.

Other operational conditions affecting consumer exposure during the use of the product

The directions for use must indicate the limits for proper use.

(Contd. on page 22)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 21)

Risk management measures**Worker protection****Organisational protective measures**

Employment restrictions concerning young persons must be observed (94/33/EC).

Employment restrictions concerning pregnant and lactating women must be observed (92/85/EC).

Technical protective measures

Ensure good ventilation/exhaustion at the workplace.

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines.

Ensure that suitable extractors are available on processing machines (not less than 3 - 5 air changes per hour).

Personal protective measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Use breathing protection with high concentrations.

Short term filter device:

Filter AX.

Protective gloves (EN 374)

Measures for consumer protection

Ensure adequate labelling.

Keep locked up and out of the reach of children.

Concentrations: ≥ 9 - ≤ 80 weight-%

Efficiency of protective gloves: ≥ 90 %

Environmental protection measures

Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet.

Water Do not allow to reach ground water, water bodies or sewage system.

Soil Avoid contact with soil and / or ground water during the application.

Notes In case of unintended release of the product: See section 6 of the Safety Data Sheet.

Disposal measures

Disposal must be made according to official regulations.

Ensure that waste is collected and contained.

Disposal procedures

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Waste type Partially emptied and uncleaned packaging

Exposure estimation**Worker (oral)**

The highest oral exposure to be expected is 4 mg / kg / day.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (dermal)

The highest dermal exposure to be expected is 20 mg / kg / day.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (inhalation)

The highest inhalative exposure to be expected is 130 mg/m³.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Environment

The highest environmental exposure to be expected in purification plants is 100 mg / L.

The highest environmental exposure to be expected for surface waters is 77 mg / L.

The highest environmental exposure to be expected for soil is 100 mg / kg wet weight.

Consumer

The highest dermal exposure to be expected for consumers is 4 mg / kg / day.

The highest inhalative exposure to be expected for consumers is 26 ppm.

(Contd. on page 23)

GB



Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

The highest oral exposure to be expected for consumers is 4 mg / kg / day.

(Contd. of page 22)

— GB —

(Contd. on page 24)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 23)

Annex: Exposure scenario 6

Short title of the exposure scenario ES 6: Formulation and (re)packing of substance and mixtures

Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

Process category

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled 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 mixture into small containers (dedicated filling line, including weighing)

PROC15 Use as laboratory reagent

Environmental release category ERC2 Formulation into mixture

Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

Conditions of use Customary application according to section 1.

Duration and frequency

8hrs (full working shift).

Inhalation: duration of exposition 240 min, duration of use 20 min

Environment

Outdoor use

Indoor use

The product may not be released into the environment without control.

Physical parameters

Physical state Fluid

Concentration of the substance in the mixture

Raw material.

Concentration of the substance in the mixture: $\leq 100\%$

Other operational conditions Observe the normal safety regulations when handling chemicals

Other operational conditions affecting environmental exposure

Observe section 6 of the Safety Data Sheet (Accidental release measures).

Other operational conditions affecting worker exposure

Keep away from food, drink and animal feedingstuffs.

Avoid contact with the skin and eyes.

Respiratory protection is required in work areas with inadequate ventilation and during spraying application.

Do not breathe gas/vapour/aerosol.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

Covers use at ambient temperatures: max. 20 °C

Other operational conditions affecting consumer exposure

Keep out of the reach of children.

Oral absorption is not expected.

Other operational conditions affecting consumer exposure during the use of the product

The directions for use must indicate the limits for proper use.

(Contd. on page 25)

GB



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 24)

Risk management measures**Worker protection****Organisational protective measures**

Employment restrictions concerning young persons must be observed (94/33/EC).

Employment restrictions concerning pregnant and lactating women must be observed (92/85/EC).

Technical protective measures

Ensure good ventilation/exhaustion at the workplace.

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines.

Personal protective measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Use breathing protection with high concentrations.

Short term filter device:

Filter AX.

Protective gloves (EN 374)

Measures for consumer protection

Ensure adequate labelling.

Keep locked up and out of the reach of children.

Environmental protection measures

Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet.

Water Do not allow to reach ground water, water bodies or sewage system.

Soil Avoid contact with soil and / or ground water during the application.

Notes In case of unintended release of the product: See section 6 of the Safety Data Sheet.

Disposal measures

Disposal must be made according to official regulations.

Ensure that waste is collected and contained.

Disposal procedures

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Waste type Partially emptied and uncleaned packaging

Exposure estimation**Worker (oral)**

The highest oral exposure to be expected is 4 mg / kg / day.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (dermal)

The highest dermal exposure to be expected is 20 mg / kg / day.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (inhalation)

The highest inhalative exposure to be expected is 130 mg/m³.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Environment

The highest environmental exposure to be expected in purification plants is 100 mg / L.

The highest environmental exposure to be expected for surface waters is 77 mg / L.

The highest environmental exposure to be expected for soil is 100 mg / kg wet weight.

Consumer Not relevant for this Exposure Scenario.

Guidance for downstream users No further relevant information available.

GB

(Contd. on page 26)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 25)

Annex: Exposure scenario 7

Short title of the exposure scenario

ES 7: Manufacture of the substance/Used as an intermediate/Used as a process chemical

Sector of Use

SU8 Manufacture of bulk, large scale chemicals (including petroleum products)

SU9 Manufacture of fine chemicals

Process category

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled 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

PROC15 Use as laboratory reagent

Environmental release category

ERC1 Manufacture of the substance

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC6a Use of intermediate

ERC6b Use of reactive processing aid at industrial site (no inclusion into or onto article)

Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

Conditions of use Customary application according to section 1.**Duration and frequency**

8hrs (full working shift).

5 days per week

Environment

Outdoor use

Indoor use

The product may not be released into the environment without control.

Physical parameters**Physical state** Fluid**Concentration of the substance in the mixture**

Raw material.

Concentration of the substance in the mixture: $\leq 100\%$ **Other operational conditions** Observe the normal safety regulations when handling chemicals**Other operational conditions affecting environmental exposure**

Observe section 6 of the Safety Data Sheet (Accidental release measures).

Other operational conditions affecting worker exposure

Keep away from food, drink and animal feedingstuffs.

Avoid contact with the skin and eyes.

Do not breathe gas/vapour/aerosol.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

Covers use at ambient temperatures: max. 20 °C

Other operational conditions affecting consumer exposure

Keep out of the reach of children.

Oral absorption is not expected.

Other operational conditions affecting consumer exposure during the use of the product

The directions for use must indicate the limits for proper use.

(Contd. on page 27)

GB



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 26)

Risk management measures**Worker protection****Organisational protective measures**

Employment restrictions concerning young persons must be observed (94/33/EC).

Employment restrictions concerning pregnant and lactating women must be observed (92/85/EC).

Technical protective measures

Ensure good ventilation/exhaustion at the workplace.

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines.

Ensure that suitable extractors are available on processing machines (not less than 3 - 5 air changes per hour).

Personal protective measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Use breathing protection with high concentrations.

Short term filter device:

Filter AX.

Protective gloves (EN 374)

Measures for consumer protection

Ensure adequate labelling.

Keep locked up and out of the reach of children.

Environmental protection measures

Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet.

Water Do not allow to reach ground water, water bodies or sewage system.

Soil Avoid contact with soil and / or ground water during the application.

Notes In case of unintended release of the product: See section 6 of the Safety Data Sheet.

Disposal measures

Disposal must be made according to official regulations.

Ensure that waste is collected and contained.

Disposal procedures

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Waste type Partially emptied and uncleaned packaging

Exposure estimation**Worker (oral)**

The highest oral exposure to be expected is 4 mg / kg / day.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (dermal)

The highest dermal exposure to be expected is 20 mg / kg / day.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (inhalation)

The highest inhalative exposure to be expected is 130 mg/m³.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Environment

The highest environmental exposure to be expected in purification plants is 100 mg / L.

The highest environmental exposure to be expected for surface waters is 77 mg / L.

The highest environmental exposure to be expected for soil is 100 mg / kg wet weight.

Consumer Not relevant for this Exposure Scenario.

Guidance for downstream users No further relevant information available.

GB

(Contd. on page 28)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 27)

Annex: Exposure scenario 8

Short title of the exposure scenario ES 8: Use as a fuel in industrial settings

Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

Process category

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled 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

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

PROC16 Use of fuels

PROC19 Manual activities involving hand contact

Environmental release category

ERC1 Manufacture of the substance

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC6a Use of intermediate

ERC6b Use of reactive processing aid at industrial site (no inclusion into or onto article)

Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

Conditions of use Customary application according to section 1.

Duration and frequency 8hrs (full working shift).

Environment

Outdoor use

The product may not be released into the environment without control.

Physical parameters

Physical state Fluid

Concentration of the substance in the mixture

Raw material.

Concentration of the substance in the mixture: $\leq 100\%$

Other operational conditions Observe the normal safety regulations when handling chemicals

Other operational conditions affecting environmental exposure

Observe section 6 of the Safety Data Sheet (Accidental release measures).

Other operational conditions affecting worker exposure

Keep away from food, drink and animal feedingstuffs.

Avoid contact with the skin and eyes.

Do not breathe gas/vapour/aerosol.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

Covers use at ambient temperatures: max. 20 °C

Avoid contact with the skin.

Other operational conditions affecting consumer exposure

Keep out of the reach of children.

Oral absorption is not expected.

Other operational conditions affecting consumer exposure during the use of the product

The directions for use must indicate the limits for proper use.

Risk management measures

Worker protection

Organisational protective measures

Employment restrictions concerning young persons must be observed (94/33/EC).

Employment restrictions concerning pregnant and lactating women must be observed (92/85/EC).

(Contd. on page 29)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 28)

Technical protective measures

Ensure good ventilation/exhaustion at the workplace.
Provide explosion-proof electrical equipment.
Ensure that suitable extractors are available on processing machines.

Personal protective measures

Do not inhale gases / fumes / aerosols.
Avoid contact with the skin.
Use breathing protection with high concentrations.
Short term filter device:
Filter AX.
Protective gloves (EN 374)

Measures for consumer protection

Ensure adequate labelling.
Keep locked up and out of the reach of children.

Environmental protection measures

Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet.

Water Do not allow to reach ground water, water bodies or sewage system.

Soil Avoid contact with soil and / or ground water during the application.

Notes In case of unintended release of the product: See section 6 of the Safety Data Sheet.

Disposal measures

Disposal must be made according to official regulations.
Ensure that waste is collected and contained.

Disposal procedures

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Waste type Partially emptied and uncleaned packaging

Exposure estimation**Worker (oral)**

The highest oral exposure to be expected is 4 mg / kg / day.
Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (dermal)

The highest dermal exposure to be expected is 20 mg / kg / day.
Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (inhalation)

The highest inhalative exposure to be expected is 130 mg/m³.
Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Environment

The highest environmental exposure to be expected in purification plants is 100 mg / L.
The highest environmental exposure to be expected for surface waters is 77 mg / L.
The highest environmental exposure to be expected for soil is 100 mg / kg wet weight.

Consumer Not relevant for this Exposure Scenario.

Guidance for downstream users No further relevant information available.

GB

(Contd. on page 30)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 29)

Annex: Exposure scenario 9

Short title of the exposure scenario ES 9: Use as a fuel in professional settings

Sector of Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Process category

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled 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

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

PROC16 Use of fuels

PROC19 Manual activities involving hand contact

Environmental release category

ERC8b Widespread use of reactive processing aid (no inclusion into or onto article, indoor)

ERC8e Widespread use of reactive processing aid (no inclusion into or onto article, outdoor)

Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

Conditions of use Customary application according to section 1.

Worker Regular use with exposure up to 1 hr. per workday.

Environment

Outdoor use

Indoor use

The product may not be released into the environment without control.

Physical parameters

Physical state Fluid

Concentration of the substance in the mixture

Raw material.

Concentration of the substance in the mixture: $\leq 100\%$

Other operational conditions Observe the normal safety regulations when handling chemicals

Other operational conditions affecting environmental exposure

Observe section 6 of the Safety Data Sheet (Accidental release measures).

Other operational conditions affecting worker exposure

Keep away from food, drink and animal feedingstuffs.

Avoid contact with the skin and eyes.

Do not breathe gas/vapour/aerosol.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

Covers use at ambient temperatures: max. 20 °C

Indoor application.

Outdoor application.

Other operational conditions affecting consumer exposure

Keep out of the reach of children.

Oral absorption is not expected.

Other operational conditions affecting consumer exposure during the use of the product

The directions for use must indicate the limits for proper use.

(Contd. on page 31)

GB



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 30)

Risk management measures**Worker protection****Organisational protective measures**

Employment restrictions concerning young persons must be observed (94/33/EC).

Employment restrictions concerning pregnant and lactating women must be observed (92/85/EC).

Technical protective measures

Ensure good ventilation/exhaustion at the workplace.

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines.

Personal protective measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Use breathing protection with high concentrations.

Short term filter device:

Filter AX.

Protective gloves (EN 374)

Measures for consumer protection

Ensure adequate labelling.

Keep locked up and out of the reach of children.

Environmental protection measures

Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet.

Water Do not allow to reach ground water, water bodies or sewage system.

Soil Avoid contact with soil and / or ground water during the application.

Notes In case of unintended release of the product: See section 6 of the Safety Data Sheet.

Disposal measures

Disposal must be made according to official regulations.

Ensure that waste is collected and contained.

Disposal procedures

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Waste type Partially emptied and uncleaned packaging

Exposure estimation**Worker (oral)**

The highest oral exposure to be expected is 4 mg / kg / day.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (dermal)

The highest dermal exposure to be expected is 20 mg / kg / day.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (inhalation)

The highest inhalative exposure to be expected is 130 mg/m³.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Environment

The highest environmental exposure to be expected in purification plants is 100 mg / L.

The highest environmental exposure to be expected for surface waters is 77 mg / L.

The highest environmental exposure to be expected for soil is 100 mg / kg wet weight.

Consumer Not relevant for this Exposure Scenario.

Guidance for downstream users No further relevant information available.

GB

(Contd. on page 32)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 31)

Annex: Exposure scenario 10

Short title of the exposure scenario ES 10: Industrial use in cleaning agents

Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

Process category

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled 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

PROC7 Industrial spraying

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

PROC10 Roller application or brushing

PROC13 Treatment of articles by dipping and pouring

Environmental release category

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

Conditions of use Customary application according to section 1.

Duration and frequency 8hrs (full working shift).

Environment

Outdoor use

Indoor use

The product may not be released into the environment without control.

Physical parameters

Physical state Fluid

Concentration of the substance in the mixture

Raw material.

Concentration of the substance in the mixture: $\leq 100\%$

Other operational conditions Observe the normal safety regulations when handling chemicals

Other operational conditions affecting environmental exposure

Observe section 6 of the Safety Data Sheet (Accidental release measures).

Other operational conditions affecting worker exposure

Keep away from food, drink and animal feedingstuffs.

Avoid contact with the skin and eyes.

Do not breathe gas/vapour/aerosol.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

Covers use at ambient temperatures: max. 20 °C

Other operational conditions affecting consumer exposure

Keep out of the reach of children.

Oral absorption is not expected.

Other operational conditions affecting consumer exposure during the use of the product

The directions for use must indicate the limits for proper use.

Risk management measures

Worker protection

Organisational protective measures

Employment restrictions concerning young persons must be observed (94/33/EC).

Employment restrictions concerning pregnant and lactating women must be observed (92/85/EC).

(Contd. on page 33)

GB



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 32)

Technical protective measures

Ensure good ventilation/exhaustion at the workplace.
Provide explosion-proof electrical equipment.
Ensure that suitable extractors are available on processing machines.

Personal protective measures

Do not inhale gases / fumes / aerosols.
Avoid contact with the skin.
Use breathing protection with high concentrations.
Short term filter device:
Filter AX.
Protective gloves (EN 374)

Measures for consumer protection

Ensure adequate labelling.
Keep locked up and out of the reach of children.

Environmental protection measures

Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet.

Water Do not allow to reach ground water, water bodies or sewage system.

Soil Avoid contact with soil and / or ground water during the application.

Notes In case of unintended release of the product: See section 6 of the Safety Data Sheet.

Disposal measures

Disposal must be made according to official regulations.
Ensure that waste is collected and contained.

Disposal procedures

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Waste type Partially emptied and uncleaned packaging

Exposure estimation**Worker (oral)**

The highest oral exposure to be expected is 4 mg / kg / day.
Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (dermal)

The highest dermal exposure to be expected is 20 mg / kg / day.
Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (inhalation)

The highest inhalative exposure to be expected is 130 mg/m³.
Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Environment

The highest environmental exposure to be expected in purification plants is 100 mg / L.
The highest environmental exposure to be expected for surface waters is 77 mg / L.
The highest environmental exposure to be expected for soil is 100 mg / kg wet weight.

Consumer Not relevant for this Exposure Scenario.

Guidance for downstream users No further relevant information available.

GB

(Contd. on page 34)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 33)

Annex: Exposure scenario 11

Short title of the exposure scenario ES 11: Use as a laboratory reagent in industrial settings

Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

Process category

PROC10 Roller application or brushing

PROC15 Use as laboratory reagent

Environmental release category

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

Conditions of use Customary application according to section 1.

Duration and frequency 8hrs (full working shift).

Worker Permanent use with exposure up to 8 hrs every work day of the week.

Environment

Outdoor use

Indoor use

The product may not be released into the environment without control.

Physical parameters

Physical state Fluid

Concentration of the substance in the mixture

Raw material.

Concentration of the substance in the mixture: $\leq 100\%$

Other operational conditions Observe the normal safety regulations when handling chemicals

Other operational conditions affecting environmental exposure

Observe section 6 of the Safety Data Sheet (Accidental release measures).

Other operational conditions affecting worker exposure

Keep away from food, drink and animal feedingstuffs.

Avoid contact with the skin and eyes.

Do not breathe gas/vapour/aerosol.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

Covers use at ambient temperatures: max. 20 °C

Other operational conditions affecting consumer exposure

Keep out of the reach of children.

Oral absorption is not expected.

Other operational conditions affecting consumer exposure during the use of the product

The directions for use must indicate the limits for proper use.

Risk management measures

Worker protection

Organisational protective measures

Employment restrictions concerning young persons must be observed (94/33/EC).

Employment restrictions concerning pregnant and lactating women must be observed (92/85/EC).

Technical protective measures

Ensure good ventilation/exhaustion at the workplace.

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines.

Personal protective measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Use breathing protection with high concentrations.

Short term filter device:

Filter AX.

(Contd. on page 35)

GB



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 34)

Protective gloves (EN 374)

Measures for consumer protection

Ensure adequate labelling.

Keep locked up and out of the reach of children.

Environmental protection measures

Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet.

Water Do not allow to reach ground water, water bodies or sewage system.

Soil Avoid contact with soil and / or ground water during the application.

Notes In case of unintended release of the product: See section 6 of the Safety Data Sheet.

Disposal measures

Disposal must be made according to official regulations.

Ensure that waste is collected and contained.

Disposal procedures

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Waste type Partially emptied and uncleaned packaging

Exposure estimation**Worker (oral)**

The highest oral exposure to be expected is 4 mg / kg / day.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (dermal)

The highest dermal exposure to be expected is 20 mg / kg / day.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (inhalation)

The highest inhalative exposure to be expected is 130 mg/m³.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Environment

The highest environmental exposure to be expected in purification plants is 100 mg / L.

The highest environmental exposure to be expected for surface waters is 77 mg / L.

The highest environmental exposure to be expected for soil is 100 mg / kg wet weight.

Consumer Not relevant for this Exposure Scenario.

Guidance for downstream users No further relevant information available.

GB

(Contd. on page 36)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 35)

Annex: Exposure scenario 12

Short title of the exposure scenario ES 12: Use as a laboratory reagent in professional settings

Sector of Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Process category

PROC10 Roller application or brushing

PROC15 Use as laboratory reagent

Environmental release category

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

Conditions of use Customary application according to section 1.

Duration and frequency 8hrs (full working shift).

Worker Permanent use with exposure up to 8 hrs every work day of the week.

Environment

Outdoor use

Indoor use

The product may not be released into the environment without control.

Physical parameters

Physical state Fluid

Concentration of the substance in the mixture

Raw material.

Concentration of the substance in the mixture: $\leq 100\%$

Other operational conditions Observe the normal safety regulations when handling chemicals

Other operational conditions affecting environmental exposure

Observe section 6 of the Safety Data Sheet (Accidental release measures).

Other operational conditions affecting worker exposure

Keep away from food, drink and animal feedingstuffs.

Avoid contact with the skin and eyes.

Do not breathe gas/vapour/aerosol.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

Covers use at ambient temperatures: max. 20 °C

Indoor application.

Other operational conditions affecting consumer exposure

Keep out of the reach of children.

Oral absorption is not expected.

Other operational conditions affecting consumer exposure during the use of the product

The directions for use must indicate the limits for proper use.

Risk management measures

Worker protection

Organisational protective measures

Employment restrictions concerning young persons must be observed (94/33/EC).

Employment restrictions concerning pregnant and lactating women must be observed (92/85/EC).

Technical protective measures

Ensure good ventilation/exhaustion at the workplace.

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines.

Personal protective measures

Do not inhale gases / fumes / aerosols.

(Contd. on page 37)

GB



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 36)

Avoid contact with the skin.
Use breathing protection with high concentrations.
Short term filter device:
Filter AX.

Protective gloves (EN 374)

Measures for consumer protection

Ensure adequate labelling.
Keep locked up and out of the reach of children.

Environmental protection measures

Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet.

Water Do not allow to reach ground water, water bodies or sewage system.

Soil Avoid contact with soil and / or ground water during the application.

Notes In case of unintended release of the product: See section 6 of the Safety Data Sheet.

Disposal measures

Disposal must be made according to official regulations.
Ensure that waste is collected and contained.

Disposal procedures

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Waste type Partially emptied and uncleaned packaging

Exposure estimation

Worker (oral)

The highest oral exposure to be expected is 4 mg / kg / day.
Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (dermal)

The highest dermal exposure to be expected is 20 mg / kg / day.
Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (inhalation)

The highest inhalative exposure to be expected is 130 mg/m³.
Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Environment

The highest environmental exposure to be expected in purification plants is 100 mg / L.

The highest environmental exposure to be expected for surface waters is 77 mg / L.

The highest environmental exposure to be expected for soil is 100 mg / kg wet weight.

Consumer Not relevant for this Exposure Scenario.

Guidance for downstream users No further relevant information available.

GB

(Contd. on page 38)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 37)

Annex: Exposure scenario 13

Short title of the exposure scenario

ES 13: Professional use in oilfield drilling and production operations

Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites**Process category**

PROC4 Chemical production where opportunity for exposure arises

PROC5 Mixing or blending in batch processes

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

Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

Conditions of use Customary application according to section 1.**Duration and frequency** 8hrs (full working shift).**Worker** Permanent use with exposure up to 8 hrs every work day of the week.**Environment**

Outdoor use

The product may not be released into the environment without control.

Physical parameters**Physical state** Fluid**Concentration of the substance in the mixture**

Raw material.

Concentration of the substance in the mixture: $\leq 100\%$ Process categorie: 8a, 8b: $\leq 5\%$ **Other operational conditions** Observe the normal safety regulations when handling chemicals**Other operational conditions affecting environmental exposure**

Observe section 6 of the Safety Data Sheet (Accidental release measures).

Other operational conditions affecting worker exposure

Keep away from food, drink and animal feedingstuffs.

Avoid contact with the skin and eyes.

Do not breathe gas/vapour/aerosol.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

Covers use at ambient temperatures: max. 20 °C

Other operational conditions affecting consumer exposure

Keep out of the reach of children.

Oral absorption is not expected.

Other operational conditions affecting consumer exposure during the use of the product

The directions for use must indicate the limits for proper use.

Risk management measures**Worker protection****Organisational protective measures**

Employment restrictions concerning young persons must be observed (94/33/EC).

Employment restrictions concerning pregnant and lactating women must be observed (92/85/EC).

Technical protective measures

Ensure good ventilation/exhaustion at the workplace.

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines.

Personal protective measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Use breathing protection with high concentrations.

Short term filter device:

Filter AX.

(Contd. on page 39)

GB



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 38)

Protective gloves (EN 374)

Measures for consumer protection

Ensure adequate labelling.

Keep locked up and out of the reach of children.

Environmental protection measures

Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet.

Water Do not allow to reach ground water, water bodies or sewage system.

Soil Avoid contact with soil and / or ground water during the application.

Notes In case of unintended release of the product: See section 6 of the Safety Data Sheet.

Disposal measures

Disposal must be made according to official regulations.

Ensure that waste is collected and contained.

Disposal procedures

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Waste type Partially emptied and uncleaned packaging

Exposure estimation**Worker (oral)**

The highest oral exposure to be expected is 4 mg / kg / day.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (dermal)

The highest dermal exposure to be expected is 20 mg / kg / day.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (inhalation)

The highest inhalative exposure to be expected is 130 mg/m³.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Environment

The highest environmental exposure to be expected in purification plants is 100 mg / L.

The highest environmental exposure to be expected for surface waters is 77 mg / L.

The highest environmental exposure to be expected for soil is 100 mg / kg wet weight.

Consumer Not relevant for this Exposure Scenario.

Guidance for downstream users No further relevant information available.

GB

(Contd. on page 40)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 39)

Annex: Exposure scenario 14

Short title of the exposure scenario ES 14: Industrial use as wastewater treatment chemical

Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

Process category

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

Environmental release category ERC7 Use of functional fluid at industrial site

Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

Conditions of use Customary application according to section 1.

Duration and frequency

8hrs (full working shift).

Avoid activities involving exposure for more than 4 h.

Environment

Outdoor use

The product may not be released into the environment without control.

Physical parameters

Physical state Fluid

Concentration of the substance in the mixture

Raw material.

Concentration of the substance in the mixture: $\leq 100\%$

Process categorie: 8a, 8b: $\leq 5\%$

Other operational conditions Observe the normal safety regulations when handling chemicals

Other operational conditions affecting environmental exposure

Observe section 6 of the Safety Data Sheet (Accidental release measures).

Other operational conditions affecting worker exposure

Keep away from food, drink and animal feedingstuffs.

Do not breathe gas/vapour/aerosol.

Avoid contact with the skin and eyes.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

Covers use at ambient temperatures: max. 20 °C

Other operational conditions affecting consumer exposure

Keep out of the reach of children.

Oral absorption is not expected.

Other operational conditions affecting consumer exposure during the use of the product

The directions for use must indicate the limits for proper use.

Risk management measures

Worker protection

Organisational protective measures

Employment restrictions concerning young persons must be observed (94/33/EC).

Employment restrictions concerning pregnant and lactating women must be observed (92/85/EC).

Allow access to authorised personnel only.

Technical protective measures

Ensure good ventilation/exhaustion at the workplace.

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines.

Ensure that suitable extractors are available on processing machines (not less than 10 - 15 air changes per hour).

Personal protective measures

Do not inhale gases / fumes / aerosols.

(Contd. on page 41)

GB



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 40)

Avoid contact with the skin.
Use breathing protection with high concentrations.
Short term filter device:
Filter AX.

Protective gloves (EN 374)

Measures for consumer protection

Ensure adequate labelling.
Keep locked up and out of the reach of children.

Environmental protection measures

Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet.

Water Do not allow to reach ground water, water bodies or sewage system.

Soil Avoid contact with soil and / or ground water during the application.

Notes In case of unintended release of the product: See section 6 of the Safety Data Sheet.

Disposal measures

Disposal must be made according to official regulations.
Ensure that waste is collected and contained.

Disposal procedures

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Waste type Partially emptied and uncleaned packaging

Exposure estimation

Worker (oral)

The highest oral exposure to be expected is 4 mg / kg / day.
Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (dermal)

The highest dermal exposure to be expected is 20 mg / kg / day.
Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (inhalation)

The highest inhalative exposure to be expected is 130 mg/m³.
Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Environment

The highest environmental exposure to be expected in purification plants is 100 mg / L.

The highest environmental exposure to be expected for surface waters is 77 mg / L.

The highest environmental exposure to be expected for soil is 100 mg / kg wet weight.

Consumer Not relevant for this Exposure Scenario.

Guidance for downstream users No further relevant information available.

GB

(Contd. on page 42)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 41)

Annex: Exposure scenario 15

Short title of the exposure scenario ES 15: Professional use in cleaning agents

Sector of Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Process category

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled 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

PROC10 Roller application or brushing

PROC11 Non industrial spraying

PROC13 Treatment of articles by dipping and pouring

Environmental release category

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

Conditions of use Customary application according to section 1.

Duration and frequency 8hrs (full working shift).

Worker Permanent use with exposure up to 8 hrs every work day of the week.

Environment

Outdoor use

The product may not be released into the environment without control.

Physical parameters

Physical state Fluid

Concentration of the substance in the mixture

Raw material.

Concentration of the substance in the mixture: $\leq 100\%$

Process categorie: 8a, 8b, 10, 15: $\leq 5\%$

Other operational conditions Observe the normal safety regulations when handling chemicals

Other operational conditions affecting environmental exposure

Observe section 6 of the Safety Data Sheet (Accidental release measures).

Other operational conditions affecting worker exposure

Keep away from food, drink and animal feedingstuffs.

Do not breathe gas/vapour/aerosol.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

Covers use at ambient temperatures: max. 20 °C

Avoid contact with the skin and eyes.

Indoor application.

Outdoor application.

Other operational conditions affecting consumer exposure

Keep out of the reach of children.

Oral absorption is not expected.

Other operational conditions affecting consumer exposure during the use of the product

The directions for use must indicate the limits for proper use.

(Contd. on page 43)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.02.2020

Version: 1

Revision: 14.02.2020

Trade name METHANOL

(Contd. of page 42)

Risk management measures**Worker protection****Organisational protective measures**

Employment restrictions concerning young persons must be observed (94/33/EC).

Employment restrictions concerning pregnant and lactating women must be observed (92/85/EC).

Allow access to authorised personnel only.

Technical protective measures

Ensure good ventilation/exhaustion at the workplace.

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines.

Personal protective measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Use breathing protection with high concentrations.

Short term filter device:

Filter AX.

Protective gloves (EN 374)

Measures for consumer protection

Ensure adequate labelling.

Keep locked up and out of the reach of children.

Environmental protection measures

Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet.

Water Do not allow to reach ground water, water bodies or sewage system.

Soil Avoid contact with soil and / or ground water during the application.

Notes In case of unintended release of the product: See section 6 of the Safety Data Sheet.

Disposal measures

Disposal must be made according to official regulations.

Ensure that waste is collected and contained.

Disposal procedures

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Waste type Partially emptied and uncleaned packaging

Exposure estimation**Worker (oral)**

The highest oral exposure to be expected is 4 mg / kg / day.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (dermal)

The highest dermal exposure to be expected is 20 mg / kg / day.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Worker (inhalation)

The highest inhalative exposure to be expected is 130 mg/m³.

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

Environment

The highest environmental exposure to be expected in purification plants is 100 mg / L.

The highest environmental exposure to be expected for surface waters is 77 mg / L.

The highest environmental exposure to be expected for soil is 100 mg / kg wet weight.

Consumer Not relevant for this Exposure Scenario.

Guidance for downstream users No further relevant information available.