### **Safety Data Sheet**



The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)

### **Methanol**

Version number: 3.0 Revision: 2024-02-23 Replaces version of: 2022-04-05 (2) First version: 2018-03-29

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

### 1.1 Product identifier

**Identification of the substance** methanol

Trade name Methanol

**Registration number (REACH)** 01-2119433307-44-0169

**EC number** 200-659-6

Index number in CLP Annex VI Index No (GB CLP) 603-001-00-X

CAS number 67-56-1

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

**Relevant identified uses**Chemicals for synthesis

Solvents

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

Atlantic Methanol Services B.V. Telephone: +31 20 240 3080

Zuidplein 126, WTC Tower H, 15th Floor Website: www.atlanticmethanol.com

1077XV Amsterdam

Netherlands

### 1.4 Emergency telephone number

**Emergency information** 24/7 ER contact number: +32 3 575 55 55 (SGS Emergency

Response on behalf of Atlantic Methanol Company)

### **Poison centre**

Country	Name	Telephone
-	SGS Emergency Response	+32 3 575 55 55

As above or nearest toxicological information centre.

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### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

### Classification according to Regulation (EC) No 1272/2008 (CLP)

Classification					
Section	Hazard class	Category	Hazard class and category	Hazard state- ment	
2.6	flammable liquid	2	Flam. Liq. 2	H225	
3.10	acute toxicity (oral)	3	Acute Tox. 3	H301	
3.1D	acute toxicity (dermal)	3	Acute Tox. 3	H311	
3.11	acute toxicity (inhal.)	3	Acute Tox. 3	H331	
3.8	specific target organ toxicity - single exposure	1	STOT SE 1	H370	

For full text of abbreviations: see SECTION 16

### The most important adverse physicochemical, human health and environmental effects

Immediate effects can be expected after short-term exposure.

The product is combustible and can be ignited by potential ignition sources.

### 2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word danger

**Pictograms** 

GHS02, GHS06, GHS08







### **Hazard statements**

**H225** Highly flammable liquid and vapour.

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.H370 Causes damage to organs (eye, central nervous system).

### **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.

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### **Precautionary statements**

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/interna-

tional regulations.

**Additional labelling requirements** see section 15 of the safety data sheet

### 2.3 Other hazards

Vapours may form explosive mixtures with air.

### Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

### **Endocrine disrupting properties**

Not listed.

### **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Name of substance methanol

**Identifiers** 

CAS No 67-56-1

EC No 200-659-6

Index No 603-001-00-X

(GB CLP)

Molecular formula CH4O

Molar mass  $32.04 \, \mathrm{g/_{mol}}$ 

### concentration limit, M-factor, ATE

Specific Conc. Limits	M-Factors	ATE	Exposure route
STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 %	-	100 <sup>mg</sup> / <sub>kg</sub> 300 <sup>mg</sup> / <sub>kg</sub> 3 <sup>mg</sup> / <sub> </sub> /4h	oral dermal inhalation: va- pour

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### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

### **General notes**

Take off immediately all contaminated clothing.

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

### **Following inhalation**

Provide fresh air.

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Mouth to mouth resuscitation should be avoided. Use alternative methods, preferably with oxygen or compressed air driven apparatus.

### Following skin contact

Wash with plenty of soap and water.

### Following eye contact

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses, if present and easy to do. Continue rinsing.

### **Following ingestion**

Induce vomiting when the affected person is not unconscious. Call a physician immediately.

### Notes for the doctor

None.

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

Narcotic effects.

Headache.

Drowsiness.

Nausea.

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

Alcoholic beverage let be drunken in little sips

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

### Suitable extinguishing media

water spray, alcohol resistant foam, fire extinguishing powder, carbon dioxide (CO2)

### Unsuitable extinguishing media

water jet

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

Combustible.

Hazardous decomposition products: Section 10.

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture.

Solvent vapours are heavier than air and may spread along floors.

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

### **Hazardous combustion products**

carbon monoxide (CO), carbon dioxide (CO2)

### 5.3 Advice for firefighters

Keep containers cool with water spray.

In case of fire and/or explosion do not breathe fumes.

Co-ordinate firefighting measures to the fire surroundings.

Do not allow firefighting water to enter drains or water courses.

Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance.

### Special protective equipment for firefighters

wear self-contained breathing apparatus

### **SECTION 6: Accidental release measures**

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

### For non-emergency personnel

Remove persons to safety.

Ventilate affected area.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

### 6.2 Environmental precautions

In case of formation of gases/vapours/mists suppress with water spray

Keep away from drains, surface and ground water.

Retain contaminated washing water and dispose of it.

If substance has entered a water course or sewer, inform the responsible authority.

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

### Advice on how to clean up a spill

Collect spillage.

Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.).

### **Appropriate containment techniques**

Use of adsorbent materials.

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### Other information relating to spills and releases

Place in appropriate containers for disposal.

Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10.

Disposal considerations: see section 13.

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Handle and open container with care.

### Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge.

Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

### Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

### Measures to protect the environment

Avoid release to the environment.

### Advice on general occupational hygiene

Do not eat, drink and smoke in work areas.

Wash hands after use.

Preventive skin protection (barrier creams/ointments) is recommended.

Remove contaminated clothing and protective equipment before entering eating areas.

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

### **Explosive atmospheres**

Keep container tightly closed and in a well-ventilated place.

Use local and general ventilation.

Keep cool.

Protect from sunlight.

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### Flammability hazards

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

Take precautionary measures against static discharge.

Ground/bond container and receiving equipment.

Protect from sunlight.

### **Incompatible substances or mixtures**

Incompatible materials: see section 10.

### Protect against external exposure, such as

heat

### Consideration of other advice

Keep away from food, drink and animal feeding stuffs.

### **Ventilation requirements**

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted.

Provision of sufficient ventilation.

### Specific designs for storage rooms or vessels

Keep container tightly closed and in a well-ventilated place.

Keep cool.

Store in a dry place.

### **Packaging compatibilities**

Only packagings which are approved (e.g. acc. to ADR) may be used.

### 7.3 Specific end use(s)

No information available.

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### **Occupational exposure limit values (Workplace Exposure Limits)** Coun-Name of agent **CAS No** Identi-**TWA TWA STEL STEL** Nota-Source try fier [ppm] [mg/m<sup>3</sup>] [ppm] [mg/m<sup>3</sup>] tion EU methanol 67-56-1 **IOELV** 200 260 Н 2006/15/EC GB methanol 67-56-1 WEL 200 266 250 333 EH40/2005

### **Notation**

H absorbed through the skin

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-

minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of

8 hours time-weighted average (unless otherwise specified)

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### **Human health values**

### **Relevant DNELs and other threshold levels**

Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	130 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
DNEL	130 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
DNEL	20 mg/kg bw/ day	human, dermal	worker (industry)	chronic - systemic effects

### 8.2 Exposure controls

### **Appropriate engineering controls**

Use local and general ventilation.

### Individual protection measures (personal protective equipment)

### **Eye/face protection**

Wear eye/face protection. (EN 166).

### **Hand protection**

### **Protective gloves**

Material	Material thickness	Breakthrough times of the glove material
IIR: isobutene-isoprene (butyl) rubber	≥ 0,8 mm	>480 minutes (permeation: level 6)
FKM: fluoro-elastomer	≥ 0,4 mm	>240 minutes (permeation: level 5)

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

### **Body protection**

Protective clothing against liquid chemicals.

(EN 13832, EN 340, EN 14605).

### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

Type: AX (gas filters and combined filters against low-boiling point organic compounds, colour code: Brown).

### **Environmental exposure controls**

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

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### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical state liquid

**Colour** colourless

**Odour** alcohol-like

Odour threshold 10 – 20,000 ppm

Melting point/freezing point -97.8 °C

Boiling point or initial boiling point and boiling 6

range

64.7 °C at 1,013 hPa

**Flammability** flammable liquid in accordance with GHS criteria

**Lower and upper explosion limit** 5.5 vol% - 44 vol%

**Flash point** 9.7 °C at 101,325 Pa

**Auto-ignition temperature** 420 °C at 101,325 Pa

**Decomposition temperature** not relevant

pH (value) not determined

**Kinematic viscosity** not determined

**Dynamic viscosity** >0.544 – <0.59 mPa s at 25 °C

Solubility(ies)

Water solubility miscible in any proportion

Partition coefficient n-octanol/water (log value) -0.77

**Vapour pressure** 169.3 hPa at 25 °C

Density and/or relative density

Density  $0.79^{\circ}$ <sub>cm³</sub> at 20 °C

Relative density / Relative vapour density 1.1 (air = 1)

Particle characteristics not relevant

(liquid)

9.2 Other information

Information with regard to physical hazard

classes

there is no additional information

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### Other safety characteristics

Surface tension 22.6 <sup>mN</sup>/<sub>m</sub> (20 °C)

Refractive index 1.336 (20 °C)

Temperature class (EU, acc. to ATEX) T1

(maximum permissible surface temperature on the equip-

ment: 450°C)

**Evaporation rate** 4.1 (n-butyl acetate = 1)

### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

If heated:

Risk of ignition.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture.

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

### 10.5 Incompatible materials

oxidisers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

Hazardous combustion products: see section 5.

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### **SECTION 11: Toxicological information**

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

If not otherwise specified the classification is based on:

Animal studies; Evidence from any other toxicity tests; Expert judgement (weight of evidence determination).

### Classification according to GHS (1272/2008/EC, CLP)

### **Acute toxicity**

Toxic if swallowed.

Toxic in contact with skin.

Toxic if inhaled.

Exposure route	Endpoint	Value	Species	Source
oral	LD50	1,187 – 2,769 <sup>mg</sup> / <sub>kg</sub>	rat	ECHA
dermal	LD50	17,100 <sup>mg</sup> / <sub>kg</sub>	rabbit	ECHA

### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

### Respiratory or skin sensitisation Skin sensitisation

Shall not be classified as a skin sensitiser.

### **Respiratory sensitisation**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

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### Specific target organ toxicity - single exposure

Hazard category	Target organ	Exposure route
1	eye	if exposed
1	central nervous system	if exposed

### Specific target organ toxicity - repeated exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

### 11.2 Information on other hazards

### **Endocrine disrupting properties**

Not listed.

### **SECTION 12: Ecological information**

### 12.1 Toxicity

### **Aquatic toxicity (acute)**

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

Endpoint	Exposure time	Value	Species	Method	Source
LC50	96 h	15,400 <sup>mg</sup> / <sub>l</sub>	bluegill (Lepomis macrochirus)	EPA-660/3-75-009	ECHA
EC50	96 h	12,700 <sup>mg</sup> / <sub>l</sub>	bluegill (Lepomis macrochirus)	EPA-660/3-75-009	ECHA
EC50	96 h	18,260 <sup>mg</sup> / <sub>l</sub>	daphnia magna	OECD Guideline 202	ECHA
ErC50	96 h	~22,000 <sup>mg</sup> / <sub>l</sub>	algae (pseudokirch- neriella subcapitata)	OECD Guideline 201	ЕСНА

### **Aquatic toxicity (chronic)**

No data available.

### 12.2 Persistence and degradability

### **Biodegradation**

The substance is readily biodegradable.

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### **Process of degradability**

Process	Degradation rate	Time	Source
oxygen depletion	95 %	20 d	ECHA

### **Persistence**

No data available.

### 12.3 Bioaccumulative potential

n-octanol/water (log KOW)	-0.77
BCF	<10
	(ECHA)

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

### 12.6 Endocrine disrupting properties

Not listed.

### 12.7 Other adverse effects

Data are not available.

### **Remarks**

Wassergefährdungsklasse, WGK (water hazard class): 2. Keep away from drains, surface and ground water.

### SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste.

### Sewage disposal-relevant information

Do not empty into drains.

### Waste treatment of containers/packagings

Completely emptied packages can be recycled.

Handle contaminated packages in the same way as the substance itself.

### **Remarks**

Please consider the relevant national or regional provisions.

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### **SECTION 14: Transport information**

### 14.1 UN number or ID number

ADR/RID UN1230

ADR/RID/ADN UN1230

IMDG-Code UN1230

ICAO-TI UN1230

14.2 UN proper shipping name

ADR/RID METHANOL

ADR/RID/ADN METHANOL

IMDG-Code METHANOL

ICAO-TI Methanol

14.3 Transport hazard class(es)

**ADR/RID** 3 (6.1)

**ADR/RID/ADN** 3 (6.1)

**IMDG-Code** 3 (6.1)

**ICAO-TI** 3 (6.1)

14.4 Packing group

ADR/RID II

ADR/RID/ADN II

IMDG-Code II

ICAO-TI II

14.5 Environmental hazards -

14.6 Special precautions for user -

14.7 Maritime transport in bulk according to IMO -

instruments

### 14.8 Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)
Additional information Agreement concerning the International Carriage of Dangerous
Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous
Goods by Rail (RID). Additional information

Particulars in the transport document UN1230, METHANOL, 3 (6.1), II, (D/E)

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Classification code FT1

Danger label(s) 3+6.1



Special provisions (SP) 279, 802(ADN)

Excepted quantities (EQ) E2

Limited quantities (LQ) 1 L

Transport category (TC) 2

Tunnel restriction code (TRC) D/E

Hazard identification No 336

Emergency Action Code 2WE

### International Maritime Dangerous Goods Code (IMDG) Additional information

Marine pollutant -

Danger label(s) 3+6.1



Special provisions (SP) 279

Excepted quantities (EQ) E2

Limited quantities (LQ) 1 L

EmS F-E, S-D

Stowage category B

### International Civil Aviation Organization (ICAO-IATA/DGR) Additional information

Danger label(s) 3+6.1



Special provisions (SP) A113

Excepted quantities (EQ) E2

Limited quantities (LQ) 1 L

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### **SECTION 15: Regulatory information**

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

Relevant provisions of the European Union (EU)

**Restrictions according to REACH, Annex XVII** 

Not listed.

### **Seveso Directive**

2012/18/EU (Seveso III)					
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes		
22	methanol	500 5,000	-		

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

Not listed.

Regulation on the marketing and use of explosives precursors

Not listed.

**Regulation on drug precursors** 

Not listed.

Regulation on substances that deplete the ozone layer (ODS)

Not listed.

Regulation concerning the export and import of hazardous chemicals (PIC)

Not listed.

Regulation on persistent organic pollutants (POP)

Not listed.

National regulations (GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

Not listed

Restrictions according to GB REACH, Annex 17

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### Dangerous substances with restrictions (GB REACH, Annex 17)

Name of substance	Name acc. to inventory	CAS No	Conditions of restriction
methanol	Methanol	67-56-1	R69
methanol	this product meets the criteria for clas- sification in accordance with Regula- tion No 1272/2008/EC	-	R3
methanol	flammable / pyrophoric	-	R40

### Legend

R3

- 1. Shall not be used in:
- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
- 2. Articles not complying with paragraph 1 shall not be placed on the market.
- 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
- can be used as fuel in decorative oil lamps for supply to the general public, and,
- present an aspiration hazard and are labelled with R65 or H304,
- 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the British Standard Specification on Decorative oil lamps (BS EN 14059) adopted by the British Standards Institute.
- 5. Without prejudice to the implementation of other legislation relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
- (a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010 'Just a sip of lamp oil
- or even sucking the wick of lamps
- may lead to life-threatening lung damage';
- (b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as

follows: 'Just a sip of grill lighter may lead to life-threatening lung damage';

- (c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
- 7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the Agency.

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### Legend

R40

- 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:
- metallic glitter intended mainly for decoration,
- artificial snow and frost,
- 'whoopee' cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.
- 2. Without prejudice to the application of other legislation on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:

'For professional users only'.

- 3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (\*\*\*).
- 4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

(\*\*\*) OJ L 147, 9.6.1975, p. 40.

R69

Shall not be placed on the market to the general public after 9 May 2019 in windscreen washing or defrosting fluids, in a concentration equal to or greater than 0.6 % by weight.

### 15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has been carried out.

### **SECTION 16: Other information**

### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)
8.1	<u>-</u>	Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)
8.2	Eye/face protection: Wear eye/face protection.	Eye/face protection: Wear eye/face protection. (EN 166).
8.2	<del>-</del>	Body protection: Protective clothing against liquid chemicals. (EN 13832, EN 340, EN 14605).
14.1		ADR/RID/ADN: UN1230
14.2	-	ADR/RID/ADN: METHANOL
14.3		ADR/RID/ADN: 3 (6.1)
14.4	-	ADR/RID/ADN: II

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Section	Former entry (text/value)	Actual entry (text/value)
15.1	Restrictions according to REACH, Annex XVII	Restrictions according to REACH, Annex XVII: Not listed.
15.1	-	Restrictions according to REACH, Annex XVII: change in the listing (table)
15.1	List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list: Not listed.	-
15.1	-	Restrictions according to GB REACH, Annex 17
15.1	-	Dangerous substances with restrictions (GB REACH, Annex 17): change in the listing (table)

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations		
2006/15/EC	Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC		
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)		
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement con- cerning the International Carriage of Dangerous Goods by Road)		
ADR/RID/ADN	Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN)		
ATE	Acute Toxicity Estimate		
BCF	Bioconcentration factor		
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)		
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures		
DGR	Dangerous Goods Regulations (see IATA/DGR)		
DNEL	Derived No-Effect Level		
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval		
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)		
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/)		
EINECS	European Inventory of Existing Commercial Chemical Substances		
ELINCS	European List of Notified Chemical Substances		

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Abbr.	Descriptions of used abbreviations
	Descriptions of used abbreviations
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
GB CLP	The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended)
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
STEL TWA	Short-term exposure limit  Time-weighted average

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### Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs (eye, central nervous system).

### Responsible for the safety data sheet

C.S.B. GmbH Telephone: +49 (0) 2151 - 652086 - 0
Dujardinstr. 5 Telefax: +49 (0) 2151 - 652086 - 9
47829 Krefeld e-Mail: info@csb-compliance.com
Germany Website: www.csb-compliance.com

### **Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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### Annex to the extended Safety Data Sheet (eSDS)

Methanol

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Exposure Scenario / ES No 1 - Formulation [mixing] of preparations and/or re-packaging (excluding alloys)/ Distribution of substance - Industrial use

### 1 TITLE SECTION

**Exposure Scenario name:** Formulation [mixing] of preparations and/or re-

packaging (excluding alloys)/ Distribution of sub-

stance - Industrial use

### **Environmental release categories [ERC]**

ERC2: Formulation into mixture.

### **Process categories [PROC]**

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.

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.

PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing).

PROC15: Use as laboratory reagent.

### 2 Conditions of use affecting exposure

### 2.1 Environmental release categories [ERC]

ERC2: Formulation into mixture.

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 2.2 Process categories [PROC]

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

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

### Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

### Annex to the extended Safety Data Sheet (eSDS)

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### Other conditions affecting workers exposure

Area of use Indoor use

Main user group Industrial use

### **Exposed skin surface assumed:**

240 cm<sup>2</sup>.

### 2.3 Process categories [PROC]

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

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

### Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

### **Technical and organisational measures**

Local exhaust ventilation. Air - minimum efficiency of 90 %.

### **Personal protection**

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

### Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

### **Exposed skin surface assumed:**

480 cm<sup>2</sup>.

### 2.4 Process categories [PROC]

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition.

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

### Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

### **Technical and organisational measures**

Local exhaust ventilation. Air - minimum efficiency of 90 %.

### **Personal protection**

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

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Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

**Exposed skin surface assumed:** 

240 cm<sup>2</sup>.

### 2.5 Process categories [PROC]

PROC4: Chemical production where opportunity for exposure arises.

**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

>4 h/day

Frequency, Duration

Covers use up to

Use frequency 5 days per week

**Technical and organisational measures** 

Local exhaust ventilation. Air - minimum efficiency of 90 %.

Personal protection

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

**Exposed skin surface assumed:** 

480 cm<sup>2</sup>.

### 2.6 Process categories [PROC]

PROC5: Mixing or blending in batch processes.

**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

Technical and organisational measures

Local exhaust ventilation. Air - minimum efficiency of 90 %.

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

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### **Exposed skin surface assumed:**

480 cm<sup>2</sup>.

### 2.7 Process categories [PROC]

PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities.

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

### **Technical and organisational measures**

Local exhaust ventilation. Air - minimum efficiency of 90 %.

### **Personal protection**

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

### Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

### **Exposed skin surface assumed:**

960 cm<sup>2</sup>.

### 2.8 Process categories [PROC]

PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities.

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

### **Technical and organisational measures**

Local exhaust ventilation. Air - minimum efficiency of 95 %.

### **Personal protection**

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

### Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

### **Exposed skin surface assumed:**

960 cm<sup>2</sup>.

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### 2.9 Process categories [PROC]

PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing).

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to

>4 h/dav

Use frequency 5 days per week

### **Technical and organisational measures**

Local exhaust ventilation. Air - minimum efficiency of 90 %.

### **Personal protection**

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

### Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

**Exposed skin surface assumed:** 

480 cm<sup>2</sup>.

### 2.10Process categories [PROC]

PROC15: Use as laboratory reagent.

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

### **Technical and organisational measures**

Local exhaust ventilation. Air - minimum efficiency of 90 %.

### **Personal protection**

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

### Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

**Exposed skin surface assumed:** 

240 cm<sup>2</sup>.

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### 3 Exposure estimation and reference to its source

### 3.1 Environmental release categories [ERC]

### **ERC2: Formulation into mixture**

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 3.2 Process categories [PROC]

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

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.034286 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.001714

Exposure route Inhalation
Health effect systemic
Exposure indicator long-term

Exposure level 0.013351 mg/m<sup>3</sup>

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.000103

**Exposure route** combined routes

Exposure level 0.036193 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.001817

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.034286 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.001714

Exposure route Inhalation
Health effect systemic
Exposure indicator short-term
Exposure level 0.053403 mg/m³

Calculation method EasyTRA

Risk Characterization Ratio (RCR) 0.000411 **Exposure route** combined routes



Version number: GHS 1.0

Issue date: 2022-03-22

Exposure level 0.041915 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.002125

### 3.3 Process categories [PROC]

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

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.274286 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.013714 **Exposure route** Inhalation Health effect systemic **Exposure** indicator long-term Exposure level 3.338 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.025675

**Exposure route** combined routes Exposure level 0.7511 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.039389

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.274286 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.013714 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 13.351 mg/m<sup>3</sup> Calculation method **EasyTRA** 0.102698 Risk Characterization Ratio (RCR)

**Exposure route** combined routes
Exposure level 2.182 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.116413

### 3.4 Process categories [PROC]

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

**Exposure route** dermal

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Health effect systemic Exposure indicator long-term

Exposure level 0.137143 mg/kg bw/day

Calculation method **EasyTRA** 0.006857 Risk Characterization Ratio (RCR) **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term Exposure level 6.675 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.051349

**Exposure route** combined routes Exposure level 1.091 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.058206

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.137143 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.006857 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 26.702 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.205397

**Exposure route** combined routes Exposure level 3.952 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.212254

### 3.5 Process categories [PROC]

### PROC4: Chemical production where opportunity for exposure arises

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 1.371 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.068571

Exposure route Inhalation
Health effect systemic
Exposure indicator long-term

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Exposure level 13.351 mg/m³
Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.102698

Exposure routecombined routesExposure level3.279 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.17127 **Exposure route** dermal
Health effect systemic
Exposure indicator short-term

Exposure level 1.371 mg/kg bw/day

Calculation method **EasyTRA** 0.068571 Risk Characterization Ratio (RCR) **Exposure route** Inhalation Health effect systemic **Exposure** indicator short-term Exposure level 53.403 mg/m<sup>3</sup> Calculation method **EasyTRA** 0.410794 Risk Characterization Ratio (RCR)

Exposure routecombined routesExposure level9 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.479365

### 3.6 Process categories [PROC]

### PROC5: Mixing or blending in batch processes

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 2.743 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.137143 **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term Exposure level 33.377 mg/m<sup>3</sup> **EasyTRA** Calculation method 0.256746 Risk Characterization Ratio (RCR)

**Exposure route** combined routes

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Exposure level 7.511 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.393889

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 2.743 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.137143 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 13.351 mg/m<sup>3</sup> Calculation method **EasyTRA** 0.102698 Risk Characterization Ratio (RCR)

Exposure routecombined routesExposure level4.65 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.239841

### 3.7 Process categories [PROC]

### PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 2.743 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.137143 **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term 33.377 mg/m<sup>3</sup> Exposure level Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.256746

Exposure routecombined routesExposure level7.511 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.393889

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 2.743 mg/kg bw/day

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Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.137143 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 66.754 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.513492

**Exposure route** combined routes
Exposure level 12.279 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.650635

### 3.8 Process categories [PROC]

### PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 2.743 mg/kg bw/day

Calculation method **EasyTRA** 0.137143 Risk Characterization Ratio (RCR) Inhalation **Exposure route** Health effect systemic **Exposure indicator** long-term Exposure level 10.013 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.077024

**Exposure route** combined routes
Exposure level 4.173 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.214167 **Exposure route** dermal
Health effect systemic
Exposure indicator short-term

Exposure level 2.743 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.137143

Exposure route Inhalation
Health effect systemic
Exposure indicator short-term
Exposure level 20.026 mg/m³

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.154048

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**Exposure route** combined routes Exposure level 5.604 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.29119

### 3.9 Process categories [PROC]

### PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 1.371 mg/kg bw/day

Calculation method **EasyTRA** 0.068571 Risk Characterization Ratio (RCR) **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term 26.702 mg/m<sup>3</sup> Exposure level Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.205397

**Exposure route** combined routes Exposure level 5.186 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.273968

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 1.371 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.068571 **Exposure route** Inhalation Health effect systemic **Exposure** indicator short-term Exposure level 53.403 mg/m<sup>3</sup> Calculation method **EasyTRA** 0.410794 Risk Characterization Ratio (RCR)

**Exposure route**Exposure level
combined routes
9 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.479365

### 3.10 Process categories [PROC]

PROC15: Use as laboratory reagent

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Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.068571 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.003429 **Exposure route** Inhalation Health effect systemic **Exposure** indicator long-term Exposure level 6.675 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.051349

Exposure routecombined routesExposure level1.022 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.054778

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.068571 mg/kg bw/day

Calculation method **EasyTRA** 0.003429 Risk Characterization Ratio (RCR) **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 13.351 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.102698

Exposure routecombined routesExposure level1.976 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.106127

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

### **Environment**

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

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### Health

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

### Annex to the extended Safety Data Sheet (eSDS)

Methanol

Version number: GHS 1.0 Issue date: 2022-03-22

### Exposure Scenario / ES No 2 - Use as an intermediate - Industrial use

### 1 TITLE SECTION

**Exposure Scenario name:**Use as an intermediate - Industrial use

**Environmental release categories [ERC]** 

ERC6a: Use of intermediate.

### **Process categories [PROC]**

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.

### 2 Conditions of use affecting exposure

### 2.1 Environmental release categories [ERC]

ERC6a: Use of intermediate.

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 2.2 Process categories [PROC]

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

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

Other conditions affecting workers exposure

Area of use Indoor use

Main user group Industrial use

**Exposed skin surface assumed:** 

240 cm<sup>2</sup>.

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### 2.3 Process categories [PROC]

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

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to

>4 h/dav

Use frequency 5 days per week

### **Technical and organisational measures**

Local exhaust ventilation. Air - minimum efficiency of 90 %.

### **Personal protection**

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

### Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

### **Exposed skin surface assumed:**

480 cm<sup>2</sup>.

### 2.4 Process categories [PROC]

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition.

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

### **Technical and organisational measures**

Local exhaust ventilation. Air - minimum efficiency of 90 %.

### **Personal protection**

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

### Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

### **Exposed skin surface assumed:**

240 cm<sup>2</sup>.

### 2.5 Process categories [PROC]

PROC4: Chemical production where opportunity for exposure arises.

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**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

**Technical and organisational measures** 

Local exhaust ventilation. Air - minimum efficiency of 90 %.

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

**Exposed skin surface assumed:** 

480 cm<sup>2</sup>.

### 2.6 Process categories [PROC]

PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities.

**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

**Technical and organisational measures** 

Local exhaust ventilation. Air - minimum efficiency of 90 %.

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

**Exposed skin surface assumed:** 

960 cm<sup>2</sup>.

### 2.7 Process categories [PROC]

PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities.

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**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

Technical and organisational measures

Local exhaust ventilation. Air - minimum efficiency of 95 %.

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

**Exposed skin surface assumed:** 

960 cm<sup>2</sup>.

### 2.9 Process categories [PROC]

PROC15: Use as laboratory reagent.

**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

**Technical and organisational measures** 

Local exhaust ventilation. Air - minimum efficiency of 90 %.

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

**Exposed skin surface assumed:** 

240 cm<sup>2</sup>.

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### **Exposure estimation and reference to its source**

### 3.1 Environmental release categories [ERC]

### **ERC6a: Use of intermediate**

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 3.2 Process categories [PROC]

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

**Exposure route** dermal Health effect systemic **Exposure indicator** long-term

Exposure level 0.034286 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.001714 **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term

0.013351 mg/m<sup>3</sup> Exposure level

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.000103

**Exposure route** combined routes

Exposure level 0.036193 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.001817 **Exposure route** dermal Health effect systemic **Exposure** indicator short-term

Exposure level 0.034286 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.001714 Inhalation **Exposure route** Health effect systemic **Exposure indicator** short-term

Exposure level 0.053403 mg/m<sup>3</sup>

Calculation method **EasyTRA** 0.000411 Risk Characterization Ratio (RCR)

**Exposure route** combined routes

### Annex to the extended Safety Data Sheet (eSDS) Methanol



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Exposure level 0.041915 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.002125

### 3.3 Process categories [PROC]

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

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.274286 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.013714 **Exposure route** Inhalation Health effect systemic **Exposure** indicator long-term Exposure level 3.338 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.025675

**Exposure route** combined routes Exposure level 0.7511 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.039389

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.274286 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.013714 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 13.351 mg/m<sup>3</sup> Calculation method **EasyTRA** 0.102698 Risk Characterization Ratio (RCR)

**Exposure route** combined routes
Exposure level 2.182 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.116413

### 3.4 Process categories [PROC]

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

**Exposure route** dermal

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Health effect systemic Exposure indicator long-term

Exposure level 0.137143 mg/kg bw/day

Calculation method **EasyTRA** 0.006857 Risk Characterization Ratio (RCR) **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term Exposure level 6.675 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.051349

**Exposure route** combined routes Exposure level 1.091 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.058206

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.137143 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.006857 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 26.702 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.205397

**Exposure route** combined routes
Exposure level 3.952 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.212254

### 3.5 Process categories [PROC]

### PROC4: Chemical production where opportunity for exposure arises

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 1.371 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.068571

Exposure route Inhalation
Health effect systemic
Exposure indicator long-term

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Exposure level 13.351 mg/m³
Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.102698

Exposure routecombined routesExposure level3.279 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.17127 **Exposure route** dermal
Health effect systemic
Exposure indicator short-term

Exposure level 1.371 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.068571 **Exposure route** Inhalation Health effect systemic **Exposure** indicator short-term Exposure level 53.403 mg/m<sup>3</sup> Calculation method **EasyTRA** 0.410794 Risk Characterization Ratio (RCR)

**Exposure route** combined routes Exposure level 9 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.479365

### 3.6 Process categories [PROC]

### PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 2.743 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.137143 **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term Exposure level 33.377 mg/m<sup>3</sup> Calculation method **EasyTRA** 0.256746 Risk Characterization Ratio (RCR)

**Exposure route** combined routes

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Exposure level 7.511 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.393889

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 2.743 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.137143 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 66.754 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.513492

**Exposure route** combined routes
Exposure level 12.279 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.650635

### 3.7 Process categories [PROC]

### PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 2.743 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.137143 **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term 10.013 mg/m<sup>3</sup> Exposure level Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.077024

**Exposure route**Exposure level

combined routes

4.173 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.214167

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 2.743 mg/kg bw/day

Calculation method EasyTRA

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Risk Characterization Ratio (RCR)

Exposure route

Health effect

Exposure indicator

Exposure level

Calculation method

O.137143

Inhalation

systemic

short-term

20.026 mg/m³

EasyTRA

Risk Characterization Ratio (RCR) 0.154048

Exposure routecombined routesExposure level5.604 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.29119

### 3.8 Process categories [PROC]

### PROC15: Use as laboratory reagent

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.068571 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.003429 Inhalation **Exposure route** Health effect systemic **Exposure indicator** long-term Exposure level 6.675 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.051349

**Exposure route** combined routes
Exposure level 1.022 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.054778

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.068571 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.003429

Exposure route Inhalation
Health effect systemic
Exposure indicator short-term
Exposure level 13.351 mg/m³
Calculation method EasyTRA

Risk Characterization Ratio (RCR) 0.102698

**Exposure route** combined routes



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Exposure level 1.976 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.106127

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

### **Environment**

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

### Health

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

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Methanol

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### Exposure Scenario / ES No 3 - Use in process chemicals/ Distribution of substance - Industrial use

### 1 TITLE SECTION

**Exposure Scenario name:**Use in process chemicals/ Distribution of sub-

stance - Industrial use

### **Environmental release categories [ERC]**

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

### **Process categories [PROC]**

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.

### 2 Conditions of use affecting exposure

### 2.1 Environmental release categories [ERC]

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

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 2.2 Process categories [PROC]

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

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

Other conditions affecting workers exposure

Area of use Indoor use

Main user group Industrial use

United Kingdom (en)

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### **Exposed skin surface assumed:**

240 cm<sup>2</sup>.

### 2.3 Process categories [PROC]

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

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

### **Technical and organisational measures**

Local exhaust ventilation. Air - minimum efficiency of 90 %.

### **Personal protection**

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

### Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

### **Exposed skin surface assumed:**

480 cm<sup>2</sup>.

### 2.4 Process categories [PROC]

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition.

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

### **Technical and organisational measures**

Local exhaust ventilation. Air - minimum efficiency of 90 %.

### **Personal protection**

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

### Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

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### **Exposed skin surface assumed:**

240 cm<sup>2</sup>.

### 2.5 Process categories [PROC]

PROC4: Chemical production where opportunity for exposure arises.

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

### **Technical and organisational measures**

Local exhaust ventilation. Air - minimum efficiency of 90 %.

### **Personal protection**

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

### Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

### **Exposed skin surface assumed:**

480 cm<sup>2</sup>.

### 2.6 Process categories [PROC]

PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities.

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

### **Technical and organisational measures**

Local exhaust ventilation. Air - minimum efficiency of 90 %.

### **Personal protection**

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

### Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

### **Exposed skin surface assumed:**

960 cm<sup>2</sup>.

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### 2.7 Process categories [PROC]

PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities.

**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

**Technical and organisational measures** 

Local exhaust ventilation. Air - minimum efficiency of 95 %.

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

**Exposed skin surface assumed:** 

960 cm<sup>2</sup>.

### 2.8 Process categories [PROC]

PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing).

**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

Technical and organisational measures

Local exhaust ventilation. Air - minimum efficiency of 90 %.

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

**Exposed skin surface assumed:** 

480 cm<sup>2</sup>.

### 2.9 Process categories [PROC]

PROC15: Use as laboratory reagent.

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Methanol

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**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

Technical and organisational measures

Local exhaust ventilation. Air - minimum efficiency of 90 %.

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

**Exposed skin surface assumed:** 

240 cm<sup>2</sup>.

### 3 Exposure estimation and reference to its source

### 3.1 Environmental release categories [ERC]

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

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 3.2 Process categories [PROC]

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

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.034286 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.001714

Exposure route Inhalation
Health effect systemic
Exposure indicator long-term

Exposure level 0.013351 mg/m<sup>3</sup>

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.000103

**Exposure route** combined routes

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Exposure level 0.036193 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.001817

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.034286 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.001714

Exposure route Inhalation
Health effect systemic
Exposure indicator short-term
Exposure level 0.053403 mg/m³

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.000411

**Exposure route** combined routes

Exposure level 0.041915 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.002125

### 3.3 Process categories [PROC]

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

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.274286 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.013714 **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term Exposure level 3.338 mg/m<sup>3</sup> Calculation method **EasyTRA** 0.025675 Risk Characterization Ratio (RCR)

Exposure routecombined routesExposure level0.7511 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.039389

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.274286 mg/kg bw/day

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Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.013714 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 13.351 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.102698

Exposure routecombined routesExposure level2.182 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.116413

### 3.4 Process categories [PROC]

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.137143 mg/kg bw/day

Calculation method **EasyTRA** 0.006857 Risk Characterization Ratio (RCR) **Exposure route** Inhalation Health effect systemic **Exposure** indicator long-term Exposure level 6.675 mg/m<sup>3</sup> Calculation method **EasyTRA** 0.051349 Risk Characterization Ratio (RCR)

Exposure routecombined routesExposure level1.091 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.058206

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.137143 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.006857

Exposure route Inhalation
Health effect systemic
Exposure indicator short-term
Exposure level 26.702 mg/m³
Calculation method EasyTRA

United Kingdom (en)

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Risk Characterization Ratio (RCR) 0.205397

Exposure routecombined routesExposure level3.952 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.212254

### 3.5 Process categories [PROC]

### PROC4: Chemical production where opportunity for exposure arises

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 1.371 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.068571 **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term 13.351 mg/m<sup>3</sup> Exposure level Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.102698

Exposure routecombined routesExposure level3.279 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.17127

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 1.371 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.068571 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 53.403 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.410794

**Exposure route** combined routes Exposure level 9 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.479365

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### 3.6 Process categories [PROC]

PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 2.743 mg/kg bw/day

Calculation method **EasyTRA** 0.137143 Risk Characterization Ratio (RCR) **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term Exposure level 33.377 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.256746

**Exposure route** combined routes Exposure level 7.511 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.393889

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 2.743 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.137143 **Exposure route** Inhalation Health effect systemic **Exposure** indicator short-term Exposure level 66.754 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.513492

**Exposure route**Exposure level
combined routes
12.279 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.650635

### 3.7 Process categories [PROC]

### PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 2.743 mg/kg bw/day

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Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.137143 **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term Exposure level 10.013 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.077024

**Exposure route** combined routes Exposure level 4.173 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.214167

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 2.743 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.137143

Exposure route Inhalation
Health effect systemic
Exposure indicator short-term
Exposure level 20.026 mg/m³
Calculation method EasyTRA

Risk Characterization Ratio (RCR) 0.154048

**Exposure route** combined routes Exposure level 5.604 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.29119

### 3.8 Process categories [PROC]

### PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 1.371 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.068571

Exposure route Inhalation
Health effect systemic
Exposure indicator long-term
Exposure level 26.702 mg/m³
Calculation method EasyTRA

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Risk Characterization Ratio (RCR) 0.205397

**Exposure route** combined routes Exposure level 5.186 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.273968

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 1.371 mg/kg bw/day

Calculation method **EasyTRA** 0.068571 Risk Characterization Ratio (RCR) **Exposure route** Inhalation Health effect systemic **Exposure** indicator short-term Exposure level 53.403 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.410794

Exposure routecombined routesExposure level9 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.479365

### 3.9 Process categories [PROC]

### PROC15: Use as laboratory reagent

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.068571 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.003429 **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term Exposure level 6.675 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.051349

**Exposure route** combined routes

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Exposure level 1.022 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.054778

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.068571 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.003429 Inhalation **Exposure route** Health effect systemic **Exposure indicator** short-term Exposure level 13.351 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.102698

**Exposure route** combined routes Exposure level 1.976 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.106127

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

### **Environment**

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

### Health

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

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### Exposure Scenario / ES No 4 - Use as a fuel - Industrial use

### 1 TITLE SECTION

**Exposure Scenario name:**Use as a fuel - Industrial use

### **Environmental release categories [ERC]**

ERC7: Industrial use of substances in closed systems.

### **Process categories [PROC]**

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.

### 2 Conditions of use affecting exposure

### 2.1 Environmental release categories [ERC]

ERC7: Industrial use of substances in closed systems.

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 2.2 Process categories [PROC]

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

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

Other conditions affecting workers exposure

Area of use Indoor use

Main user group Industrial use

**Exposed skin surface assumed:** 

240 cm<sup>2</sup>.

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### 2.3 Process categories [PROC]

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

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to

>4 h/dav

Use frequency 5 days per week

### **Technical and organisational measures**

Local exhaust ventilation. Air - minimum efficiency of 90 %.

### **Personal protection**

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

### Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

### **Exposed skin surface assumed:**

480 cm<sup>2</sup>.

### 2.4 Process categories [PROC]

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition.

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

### **Technical and organisational measures**

Local exhaust ventilation. Air - minimum efficiency of 90 %.

### **Personal protection**

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

### Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

### **Exposed skin surface assumed:**

240 cm<sup>2</sup>.

### 2.5 Process categories [PROC]

PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities.

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**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

**Technical and organisational measures** 

Local exhaust ventilation. Air - minimum efficiency of 90 %.

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

**Exposed skin surface assumed:** 

960 cm<sup>2</sup>.

2.6 Process categories [PROC]

PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities.

**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

**Technical and organisational measures** 

Local exhaust ventilation. Air - minimum efficiency of 95 %.

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

**Exposed skin surface assumed:** 

960 cm<sup>2</sup>.

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### 2.7 Process categories [PROC]

PROC16: Use of fuels.

**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 25 %.

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

**Exposed skin surface assumed:** 

240 cm<sup>2</sup>.

### 2.8 Process categories [PROC]

PROC19: Manual activities involving hand contact.

**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers concentrations up to 10 %

Frequency, Duration

Covers use up to

<=4 h/day

Use frequency 5 days per week

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

**Exposed skin surface assumed:** 

1980 cm<sup>2</sup>.

### 3 Exposure estimation and reference to its source

### 3.1 Environmental release categories [ERC]

### **ERC7: Industrial use of substances in closed systems**

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

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### 3.2 Process categories [PROC]

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

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.034286 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.001714

Exposure route Inhalation
Health effect systemic
Exposure indicator long-term

Exposure level 0.013351 mg/m<sup>3</sup>

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.000103

**Exposure route** combined routes

Exposure level 0.036193 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.001817

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.034286 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.001714

Exposure route Inhalation
Health effect systemic
Exposure indicator short-term
Exposure level 0.053403 mg/m³

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.000411

**Exposure route** combined routes

Exposure level 0.041915 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.002125

### 3.3 Process categories [PROC]

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

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

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Exposure level 0.274286 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.013714 **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term Exposure level 3.338 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.025675

**Exposure route** combined routes
Exposure level 0.7511 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.039389

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.274286 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.013714 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 13.351 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.102698

Exposure routecombined routesExposure level2.182 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.116413

### 3.4 Process categories [PROC]

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.137143 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.006857

Exposure route Inhalation
Health effect systemic
Exposure indicator long-term
Exposure level 6.675 mg/m³

United Kingdom (en)

### C M

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Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.051349

**Exposure route** combined routes Exposure level 1.091 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.058206

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.137143 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.006857 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 26.702 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.205397

**Exposure route** combined routes Exposure level 3.952 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.212254

### 3.5 Process categories [PROC]

### PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 2.743 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.137143 **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term 33.377 mg/m<sup>3</sup> Exposure level Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.256746

**Exposure route** combined routes

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Exposure level 7.511 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.393889

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 2.743 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.137143 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 66.754 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.513492

**Exposure route** combined routes
Exposure level 12.279 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.650635

### 3.6 Process categories [PROC]

### PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 2.743 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.137143 **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term 10.013 mg/m<sup>3</sup> Exposure level Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.077024

**Exposure route**Exposure level

combined routes

4.173 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.214167 **Exposure route** dermal
Health effect systemic
Exposure indicator short-term

Exposure level 2.743 mg/kg bw/day

Calculation method EasyTRA

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Risk Characterization Ratio (RCR)

Exposure route

Health effect

Exposure indicator

Exposure level

Calculation method

O.137143

Inhalation

systemic

short-term

20.026 mg/m³

EasyTRA

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.154048

Exposure routecombined routesExposure level5.604 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.29119

### 3.7 Process categories [PROC]

### PROC16: Use of fuels

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.068571 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.003429 Inhalation **Exposure route** Health effect systemic **Exposure indicator** long-term Exposure level 33.377 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.256746

Exposure route combined routes

Exposure level 4.837 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.260175

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.041143 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.002057

Exposure route Inhalation
Health effect systemic
Exposure indicator short-term
Exposure level 80.105 mg/m³
Calculation method EasyTRA

Risk Characterization Ratio (RCR) 0.61619

**Exposure route** combined routes

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Exposure level 11.485 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.618248

### 3.8 Process categories [PROC]

### PROC19: Manual activities involving hand contact

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 1.697 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.084857 **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term Exposure level 20.026 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.154048

**Exposure route** combined routes Exposure level 4.558 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.238905

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 1.697 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.084857

Exposure route Inhalation
Health effect systemic
Exposure indicator short-term
Exposure level 66.754 mg/m³
Calculation method EasyTRA

Risk Characterization Ratio (RCR) 0.513492 **Exposure route** combined routes

Exposure level 11.233 mg/kg bw/day Calculation method EasyTRA

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.598349



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

### **Environment**

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

### Health

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

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### Exposure Scenario / ES No 5 - Use in cleaning agents - Industrial use

### 1 TITLE SECTION

Exposure Scenario name:

Use in cleaning agents - Industrial use

### **Environmental release categories [ERC]**

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

### **Process categories [PROC]**

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.

### 2 Conditions of use affecting exposure

### 2.1 Environmental release categories [ERC]

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

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 2.2 Process categories [PROC]

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

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

United Kingdom (en)

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### **Exposed skin surface assumed:**

240 cm<sup>2</sup>.

### 2.3 Process categories [PROC]

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

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

**Technical and organisational measures** 

Local exhaust ventilation. Air - minimum efficiency of 90 %.

### **Personal protection**

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

### Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

### **Exposed skin surface assumed:**

480 cm<sup>2</sup>.

### 2.4 Process categories [PROC]

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition.

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

### **Technical and organisational measures**

Local exhaust ventilation. Air - minimum efficiency of 90 %.

### **Personal protection**

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

### Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

United Kingdom (en)

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### **Exposed skin surface assumed:**

240 cm<sup>2</sup>.

### 2.5 Process categories [PROC]

PROC4: Chemical production where opportunity for exposure arises.

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

### **Technical and organisational measures**

Local exhaust ventilation. Air - minimum efficiency of 90 %.

### **Personal protection**

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

### Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

**Exposed skin surface assumed:** 

480 cm<sup>2</sup>.

### 2.6 Process categories [PROC]

PROC7: Industrial spraying. **Product characteristics** 

Concentration of substance in product Covers percentage substance in the product up

to 25 %.

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %. Wear suitable respiratory protection. Inhalation - minimum efficiency of 90 %. Assumes a good basic standard of occupational hygiene is implemented.

### Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

**Exposed skin surface assumed:** 

1500 cm<sup>2</sup>.

### 2.7 Process categories [PROC]

PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities.

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**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

**Technical and organisational measures** 

Local exhaust ventilation. Air - minimum efficiency of 90 %.

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

**Exposed skin surface assumed:** 

960 cm<sup>2</sup>.

2.8 Process categories [PROC]

PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities.

**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

**Technical and organisational measures** 

Local exhaust ventilation. Air - minimum efficiency of 95 %.

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

**Exposed skin surface assumed:** 

960 cm<sup>2</sup>.

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### 2.9 Process categories [PROC]

PROC10: Roller application or brushing.

**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers concentrations up to 80 %

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

**Technical and organisational measures** 

Local exhaust ventilation. Air - minimum efficiency of 90 %.

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

**Exposed skin surface assumed:** 

960 cm<sup>2</sup>.

### 2.10Process categories [PROC]

PROC13 Treatment of articles by dipping and pouring.

**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

**Technical and organisational measures** 

Local exhaust ventilation. Air - minimum efficiency of 90 %.

Personal protection

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

**Exposed skin surface assumed:** 

480 cm<sup>2</sup>.

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### 3 Exposure estimation and reference to its source

### 3.1 Environmental release categories [ERC]

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

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 3.2 Process categories [PROC]

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

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.034286 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.001714

Exposure route Inhalation
Health effect systemic
Exposure indicator long-term

Exposure level 0.013351 mg/m<sup>3</sup>

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.000103

**Exposure route** combined routes

Exposure level 0.036193 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.001817

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.034286 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.001714

Exposure route Inhalation
Health effect systemic
Exposure indicator short-term
Exposure level 0.053403 mg/

Exposure level 0.053403 mg/m<sup>3</sup>

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.000411

**Exposure route** combined routes

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Exposure level 0.041915 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.002125

### 3.3 Process categories [PROC]

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

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.274286 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.013714 **Exposure route** Inhalation Health effect systemic **Exposure** indicator long-term Exposure level 3.338 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.025675

**Exposure route** combined routes Exposure level 0.7511 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.039389

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.274286 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.013714 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 13.351 mg/m<sup>3</sup> Calculation method **EasyTRA** 0.102698 Risk Characterization Ratio (RCR)

**Exposure route** combined routes
Exposure level 2.182 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.116413

### 3.4 Process categories [PROC]

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

**Exposure route** dermal

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Health effect systemic Exposure indicator long-term

Exposure level 0.137143 mg/kg bw/day

Calculation method **EasyTRA** 0.006857 Risk Characterization Ratio (RCR) **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term Exposure level 6.675 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.051349

**Exposure route** combined routes Exposure level 1.091 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.058206

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.137143 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.006857 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 26.702 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.205397

**Exposure route** combined routes Exposure level 3.952 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.212254

### 3.5 Process categories [PROC]

### PROC4: Chemical production where opportunity for exposure arises

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 1.371 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.068571

Exposure route Inhalation
Health effect systemic
Exposure indicator long-term

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Exposure level 13.351 mg/m³
Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.102698

Exposure routecombined routesExposure level3.279 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.17127 **Exposure route** dermal
Health effect systemic
Exposure indicator short-term

Exposure level 1.371 mg/kg bw/day

Calculation method **EasyTRA** 0.068571 Risk Characterization Ratio (RCR) **Exposure route** Inhalation Health effect systemic **Exposure** indicator short-term Exposure level 53.403 mg/m<sup>3</sup> Calculation method **EasyTRA** 0.410794 Risk Characterization Ratio (RCR)

**Exposure route** combined routes Exposure level 9 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.479365

### 3.6 Process categories [PROC]

Calculation method

### **PROC7: Industrial spraying**

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 2.143 mg/kg bw/day

Risk Characterization Ratio (RCR)

Exposure route

Health effect

Exposure indicator

Exposure level

Calculation method

O.107143

Inhalation

systemic

long-term

19.14 mg/m³

EasyTRA

Stoffenmanager 8

**EasyTRA** 

Risk Characterization Ratio (RCR) 0.147231

**Exposure route** combined routes

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Exposure level 4.877 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.254374 **Exposure route** dermal
Health effect systemic
Exposure indicator short-term

Exposure level 2.143 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.107143

Exposure route Inhalation
Health effect systemic
Exposure indicator short-term
Exposure level 19.14 mg/m³
Calculation method EasyTRA

Stoffenmanager 8

Risk Characterization Ratio (RCR) 0.147231

**Exposure route** combined routes Exposure level 4.877 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.254374

### 3.7 Process categories [PROC]

### PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 2.743 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.137143 **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term Exposure level 33.377 mg/m<sup>3</sup> Calculation method **EasyTRA** 0.256746 Risk Characterization Ratio (RCR)

Exposure routecombined routesExposure level7.511 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.393889

Exposure route dermal
Health effect systemic
Exposure indicator short-term

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Version number: GHS 1.0 Issue date: 2022-03-22

Exposure level 2.743 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.137143 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term 66.754 mg/m<sup>3</sup> Exposure level Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.513492

**Exposure route**Exposure level
combined routes
12.279 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.650635

### 3.8 Process categories [PROC]

### PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 2.743 mg/kg bw/day

**EasyTRA** Calculation method Risk Characterization Ratio (RCR) 0.137143 **Exposure route** Inhalation Health effect systemic Exposure indicator long-term Exposure level 10.013 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.077024

**Exposure route** combined routes Exposure level 4.173 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.214167

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 2.743 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.137143

Exposure route Inhalation
Health effect systemic
Exposure indicator short-term
Exposure level 20.026 mg/m³
Calculation method EasyTRA

United Kingdom (en)

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Methano

Version number: GHS 1.0 Issue date: 2022-03-22

Risk Characterization Ratio (RCR) 0.154048

**Exposure route** combined routes Exposure level 5.604 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.29119

### 3.9 Process categories [PROC]

### PROC10: Roller application or brushing

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 4.389 mg/kg bw/day

**EasyTRA** Calculation method Risk Characterization Ratio (RCR) 0.219429 Inhalation **Exposure route** Health effect systemic **Exposure indicator** long-term 26.702 mg/m<sup>3</sup> Exposure level Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.205397

Exposure routecombined routesExposure level8.203 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.424825 **Exposure route** dermal
Health effect systemic
Exposure indicator short-term

Exposure level 4.389 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.219429 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 53.403 mg/m<sup>3</sup> **EasyTRA** Calculation method Risk Characterization Ratio (RCR) 0.410794

**Exposure route** combined routes Exposure level 12.018 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.630222

### 3.10 Process categories [PROC]

### PROC13 Treatment of articles by dipping and pouring

### Annex to the extended Safety Data Sheet (eSDS)

Methano

Version number: GHS 1.0 Issue date: 2022-03-22

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 2.743 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.137143 **Exposure route** Inhalation Health effect systemic **Exposure** indicator long-term Exposure level 33.377 mg/m<sup>3</sup> Calculation method **EasyTRA** 0.256746 Risk Characterization Ratio (RCR)

Exposure routecombined routesExposure level7.511 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.393889

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 2.743 mg/kg bw/day

Calculation method **EasyTRA** 0.137143 Risk Characterization Ratio (RCR) **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 66.754 mg/m<sup>3</sup> Calculation method EasyTRA Risk Characterization Ratio (RCR) 0.513492

Exposure routecombined routesExposure level12.279 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.650635

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

### **Environment**

### Annex to the extended Safety Data Sheet (eSDS)

Methanol

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### Health

### Annex to the extended Safety Data Sheet (eSDS)

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Version number: GHS 1.0 Issue date: 2022-03-22

### Exposure Scenario / ES No 6 - Use as laboratory reagent - Industrial use

### 1 TITLE SECTION

**Exposure Scenario name:** 

Use as laboratory reagent - Industrial use

### **Environmental release categories [ERC]**

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

### **Process categories [PROC]**

PROC10: Roller application or brushing. PROC15: Use as laboratory reagent.

### 2 Conditions of use affecting exposure

### 2.1 Environmental release categories [ERC]

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

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 2.2 Process categories [PROC]

PROC10: Roller application or brushing.

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers concentrations up to 80 %

Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

### **Technical and organisational measures**

Local exhaust ventilation. Air - minimum efficiency of 90 %.

### **Personal protection**

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

### Other conditions affecting workers exposure

Area of use Indoor use

Main user group Industrial use

### **Exposed skin surface assumed:**

960 cm<sup>2</sup>.

### 2.3 Process categories [PROC]

PROC15: Use as laboratory reagent.

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**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

**Technical and organisational measures** 

Local exhaust ventilation. Air - minimum efficiency of 90 %.

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

**Exposed skin surface assumed:** 

240 cm<sup>2</sup>.

### 3 Exposure estimation and reference to its source

### 3.1 Environmental release categories [ERC]

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

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 3.2 Process categories [PROC]

### PROC10: Roller application or brushing

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 4.389 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.219429

Exposure route Inhalation
Health effect systemic
Exposure indicator long-term

Exposure level 0.219429 mg/m<sup>3</sup>

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.205397

**Exposure route** combined routes

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Version number: GHS 1.0 Issue date: 2022-03-22

Exposure level 8.203 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.424825 **Exposure route** dermal
Health effect systemic
Exposure indicator short-term

Exposure level 4.389 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.219429 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 53.403 mg/m<sup>3</sup> Calculation method **EasyTRA** 0.410794 Risk Characterization Ratio (RCR)

Exposure routecombined routesExposure level12.018 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.630222

### 3.3 Process categories [PROC]

### PROC15: Use as laboratory reagent

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.630222 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.003429 **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term Exposure level 6.675 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.051349

Exposure routecombined routesExposure level1.022 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.054778

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.068571 mg/kg bw/day

Calculation method EasyTRA

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Risk Characterization Ratio (RCR)

Exposure route

Health effect

Exposure indicator

Exposure level

Calculation method

Risk Characterization Ratio (RCR)

0.003429

Inhalation

systemic

short-term

13.351 mg/m³

EasyTRA

Risk Characterization Ratio (RCR)

0.102698

**Exposure route** combined routes Exposure level 1.976 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.106127

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

### **Environment**

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

### Health

### Annex to the extended Safety Data Sheet (eSDS)

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Version number: GHS 1.0 Issue date: 2022-03-22

### Exposure Scenario / ES No 7 - Waste water treatment - Industrial use

### 1 TITLE SECTION

Exposure Scenario name:

Waste water treatment - Industrial use

### **Environmental release categories [ERC]**

ERC7: Industrial use of substances in closed systems.

### **Process categories [PROC]**

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

### 2 Conditions of use affecting exposure

### 2.1 Environmental release categories [ERC]

ERC7: Industrial use of substances in closed systems.

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 2.2 Process categories [PROC]

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

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

### Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

### **Technical and organisational measures**

Local exhaust ventilation. Air - minimum efficiency of 90 %.

### **Personal protection**

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

### Other conditions affecting workers exposure

Area of use Indoor use

Main user group Industrial use

### **Exposed skin surface assumed:**

480 cm<sup>2</sup>.

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### 3 Exposure estimation and reference to its source

### 3.1 Environmental release categories [ERC]

### **ERC7: Industrial use of substances in closed systems**

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 3.2 Process categories [PROC]

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

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.274286 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.013714 **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term Exposure level 3.338 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.025675

Exposure routecombined routesExposure level0.7511 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.039389

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.274286 mg/kg bw/day

Calculation method EasyTRA Risk Characterization Ratio (RCR) 0.013714 Inhalation **Exposure route** Health effect systemic **Exposure indicator** short-term Exposure level 13.351 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.102698

**Exposure route** combined routes Exposure level 2.182 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.116413



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

### **Environment**

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

### Health

### Annex to the extended Safety Data Sheet (eSDS)

Methanol

Version number: GHS 1.0 Issue date: 2022-03-22

### Exposure Scenario / ES No 8 - Use in oil and gas field drilling and production operations - Industrial use

### 1 TITLE SECTION

**Exposure Scenario name:**Use in oil and gas field drilling and production

operations - Industrial use

### **Environmental release categories [ERC]**

ERC7: Industrial use of substances in closed systems.

### **Process categories [PROC]**

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.

### 2 Conditions of use affecting exposure

### 2.1 Environmental release categories [ERC]

ERC7: Industrial use of substances in closed systems.

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 2.2 Process categories [PROC]

PROC4: Chemical production where opportunity for exposure arises.

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

### Frequency, Duration

Covers use up to

<=4 h/day

Use frequency 5 days per week

### **Technical and organisational measures**

Local exhaust ventilation. Air - minimum efficiency of 90 %.

### Personal protection

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

### Other conditions affecting workers exposure

Area of use Indoor use

Main user group Industrial use

### **Exposed skin surface assumed:**

480 cm<sup>2</sup>.

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### 2.3 Process categories [PROC]

PROC5: Mixing or blending in batch processes.

**Product characteristics** 

Concentration of substance in product Covers percentage substance in the product up

to 5 %.

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %. Wear suitable respiratory protection. Assumes a good basic standard of occupational hygiene is implemented.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

**Exposed skin surface assumed:** 

480 cm<sup>2</sup>.

### 2.4 Process categories [PROC]

PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities.

**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 5 %

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

**Exposed skin surface assumed:** 

960 cm<sup>2</sup>.

### 2.5 Process categories [PROC]

PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities.

**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 5 %.

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### Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

### **Personal protection**

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

### Other conditions affecting workers exposure

Area of use Indoor use
Main user group Industrial use

**Exposed skin surface assumed:** 

960 cm<sup>2</sup>.

### 3 Exposure estimation and reference to its source

### 3.1 Environmental release categories [ERC]

### **ERC7: Industrial use of substances in closed systems**

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 3.2 Process categories [PROC]

### PROC4: Chemical production where opportunity for exposure arises

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.822857 mg/kg bw/day

Calculation method EasyTRA Risk Characterization Ratio (RCR) 0.041143 Inhalation **Exposure route** Health effect systemic **Exposure indicator** long-term Exposure level 8.01 mg/m<sup>3</sup> Calculation method **EasyTRA** 0.061619 Risk Characterization Ratio (RCR)

**Exposure route** combined routes

Exposure level 0.061619 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.102762
Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.822857 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.041143

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Exposure routeInhalationHealth effectsystemicExposure indicatorshort-termExposure level53.403 mg/m³Calculation methodEasyTRARisk Characterization Ratio (RCR)0.410794

Exposure routecombined routesExposure level8.452 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.451936

### 3.3 Process categories [PROC]

### PROC5: Mixing or blending in batch processes

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.137143 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.006857

Exposure route Inhalation
Health effect systemic
Exposure indicator long-term
Exposure level 16.688 mg/m³
Calculation method FasyTRA

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.128373

Exposure routecombined routesExposure level2.521 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.13523

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.137143 mg/kg bw/day

Calculation method EasyTRA Risk Characterization Ratio (RCR) 0.006857 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 33.377 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.256746

**Exposure route** combined routes

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Exposure level 4.905 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.263603

### 3.4 Process categories [PROC]

PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilit-

ies

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.137143 mg/kg bw/day

Calculation method EasyTRA Risk Characterization Ratio (RCR) 0.006857 **Exposure route** Inhalation Health effect systemic **Exposure** indicator long-term Exposure level 16.688 mg/m<sup>3</sup> **EasyTRA** Calculation method Risk Characterization Ratio (RCR) 0.128373

Exposure routecombined routesExposure level2.521 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.13523

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.137143 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.006857 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 33.377 mg/m<sup>3</sup> Calculation method EasyTRA Risk Characterization Ratio (RCR) 0.256746

**Exposure route** combined routes
Exposure level 4.905 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.263603

### 3.5 Process categories [PROC]

PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities

**Exposure route** dermal

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Health effect systemic Exposure indicator long-term

Exposure level 0.137143 mg/kg bw/day

Calculation method **EasyTRA** 0.006857 Risk Characterization Ratio (RCR) **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term 10.013 mg/m<sup>3</sup> Exposure level Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.077024

**Exposure route** combined routes Exposure level 1.568 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.083881

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.137143 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.006857

Exposure route Inhalation
Health effect systemic
Exposure indicator short-term
Exposure level 20.026 mg/m³
Calculation method EasyTRA

Risk Characterization Ratio (RCR) 0.154048

Exposure routecombined routesExposure level2.998 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.160905

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

### **Environment**

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### Health

### Annex to the extended Safety Data Sheet (eSDS)

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### Exposure Scenario / ES No 9 - Use as a fuel - Professional use

### 1 TITLE SECTION

**Exposure Scenario name:** 

Use as a fuel - Professional use

### **Environmental release categories [ERC]**

ERC8b: Wide dispersive indoor use of reactive substances in open systems. ERC8e: Wide dispersive outdoor use of reactive substances in open systems.

### **Process categories [PROC]**

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.

### 2 Conditions of use affecting exposure

### 2.1 Environmental release categories [ERC]

ERC8b: Wide dispersive indoor use of reactive substances in open systems.

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 2.2 Environmental release categories [ERC]

ERC8e: Wide dispersive outdoor use of reactive substances in open systems.

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 2.3 Process categories [PROC]

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

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

United Kingdom (en)

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### Other conditions affecting workers exposure

Area of use Indoor use

Main user group Professional use

**Exposed skin surface assumed:** 

240 cm<sup>2</sup>.

### 2.4 Process categories [PROC]

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

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

### **Technical and organisational measures**

Local exhaust ventilation. Air - minimum efficiency of 80 %.

### **Personal protection**

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

### Other conditions affecting workers exposure

Area of use Indoor use
Main user group Professional use

### **Exposed skin surface assumed:**

480 cm<sup>2</sup>.

### 2.5 Process categories [PROC]

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition.

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

### **Technical and organisational measures**

Local exhaust ventilation. Air - minimum efficiency of 80 %.

### Personal protection

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

### Annex to the extended Safety Data Sheet (eSDS)

Methano

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Other conditions affecting workers exposure

Area of use Indoor use
Main user group Professional use

**Exposed skin surface assumed:** 

240 cm<sup>2</sup>.

2.6 Process categories [PROC]

PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities.

**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 5 %.

Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use

Main user group Professional use

**Exposed skin surface assumed:** 

960 cm<sup>2</sup>.

2.7 Process categories [PROC]

PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities.

**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 5 %.

Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Professional use

**Exposed skin surface assumed:** 

960 cm<sup>2</sup>.

2.8 Process categories [PROC]

PROC16: Use of fuels.

### Annex to the extended Safety Data Sheet (eSDS)

Methanol

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**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use

Main user group Professional use

**Exposed skin surface assumed:** 

240 cm<sup>2</sup>.

### 2.9 Process categories [PROC]

PROC19: Manual activities involving hand contact.

**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers concentrations up to 10 %

Frequency, Duration

Covers use up to

<=4 h/day

Use frequency 5 days per week

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use

Main user group Professional use

**Exposed skin surface assumed:** 

1980 cm<sup>2</sup>.

### 3 Exposure estimation and reference to its source

### 3.1 Environmental release categories [ERC]

ERC8b: Wide dispersive indoor use of reactive substances in open systems ERC8e: Wide dispersive outdoor use of reactive substances in open systems

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 3.2 Process categories [PROC]

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

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Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.034286 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.001714

Exposure route Inhalation
Health effect systemic
Exposure indicator long-term

Exposure level 0.133508 mg/m<sup>3</sup>

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.001027

**Exposure route** combined routes

Exposure level 0.053358 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.002741

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.034286 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.001714

Exposure route Inhalation
Health effect systemic
Exposure indicator short-term

Exposure level 0.534032 mg/m<sup>3</sup>

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.004108

**Exposure route** combined routes

Exposure level 0.110576 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.005822

### 3.3 Process categories [PROC]

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

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.274286 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.013714

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Exposure routeInhalationHealth effectsystemicExposure indicatorlong-termExposure level13.351 mg/m³Calculation methodEasyTRARisk Characterization Ratio (RCR)0.102698

Exposure routecombined routesExposure level2.182 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.116413

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.274286 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.013714 **Exposure route** Inhalation Health effect systemic **Exposure** indicator short-term Exposure level 53.403 mg/m<sup>3</sup> Calculation method **EasyTRA** 0.410794 Risk Characterization Ratio (RCR)

Exposure routecombined routesExposure level7.903 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.424508

### 3.4 Process categories [PROC]

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.137143 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.006857

Exposure route Inhalation
Health effect systemic
Exposure indicator long-term
Exposure level 26.702 mg/m³
Calculation method EasyTRA

Risk Characterization Ratio (RCR) 0.205397

**Exposure route** combined routes

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Methanol

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Exposure level 3.952 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.212254

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.137143 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.006857

Exposure route Inhalation
Health effect systemic
Exposure indicator short-term
Exposure level 106.806 mg/m³

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.821587

**Exposure route** combined routes Exposure level 15.395 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.828444

### 3.5 Process categories [PROC]

### PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.137143 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.006857 **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term 33.377 mg/m<sup>3</sup> Exposure level Calculation method EasyTRA Risk Characterization Ratio (RCR) 0.256746

**Exposure route** combined routes
Exposure level 4.905 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.263603

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.137143 mg/kg bw/day

### IC

### **Annex to the extended Safety Data Sheet (eSDS)**

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Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.006857

Exposure route Inhalation
Health effect systemic
Exposure indicator short-term
Exposure level 66.754 mg/m³
Calculation method EasyTRA

Risk Characterization Ratio (RCR) **Exposure route**Exposure level

0.513492

combined routes

9.673 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.520349

### 3.6 Process categories [PROC]

### PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.137143 mg/kg bw/day

Calculation method **EasyTRA** 0.006857 Risk Characterization Ratio (RCR) Inhalation **Exposure route** Health effect systemic **Exposure indicator** long-term Exposure level 16.688 mg/m<sup>3</sup> Calculation method EasyTRA Risk Characterization Ratio (RCR) 0.128373

**Exposure route** combined routes
Exposure level 2.521 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.13523

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.13523 mg/kg bw/day

Calculation method EasyTRA 0.006857 Risk Characterization Ratio (RCR) **Exposure route** Inhalation Health effect systemic **Exposure** indicator short-term Exposure level 33.377 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.256746

### Annex to the extended Safety Data Sheet (eSDS)



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**Exposure route** combined routes Exposure level 4.905 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.263603

3.7 Process categories [PROC]

PROC16: Use of fuels

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.068571 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.003429 **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term Exposure level 66.754 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.513492

**Exposure route** combined routes Exposure level 9.605 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.516921

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.041143 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.002057

Exposure route Inhalation
Health effect systemic
Exposure indicator short-term
Exposure level 112.147 mg/m³

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.862667

**Exposure route** combined routes
Exposure level 16.062 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.864724

3.8 Process categories [PROC]

PROC19: Manual activities involving hand contact

**Exposure route** dermal

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Health effect systemic Exposure indicator long-term

Exposure level 1.697 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.084857 **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term 40.052 mg/m<sup>3</sup> Exposure level Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.308095

**Exposure route** combined routes Exposure level 7.419 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.392952

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 1.697 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.084857 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 13.351 mg/m<sup>3</sup> Calculation method **EasyTRA** 0.102698 Risk Characterization Ratio (RCR)

**Exposure route** combined routes
Exposure level 3.604 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.187556

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

### **Environment**

### Annex to the extended Safety Data Sheet (eSDS)

Methanol

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### Health

## Annex to the extended Safety Data Sheet (eSDS)

Methanol

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### Exposure Scenario / ES No 10 - Use in cleaning agents - Professional use

### 1 TITLE SECTION

### **Exposure Scenario name:**

Use in cleaning agents - Professional use

### **Environmental release categories [ERC]**

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

### **Process categories [PROC]**

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.

### 2 Conditions of use affecting exposure

### 2.1 Environmental release categories [ERC]

ERC8a: Wide dispersive indoor use of processing aids in open systems.

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 2.2 Environmental release categories [ERC]

ERC8d: Wide dispersive outdoor use of processing aids in open systems.

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 2.3 Process categories [PROC]

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

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

United Kingdom (en)

Exposure scenarios created by: C.S.B. GmbH

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## Annex to the extended Safety Data Sheet (eSDS)

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### Other conditions affecting workers exposure

Area of use Indoor use

Main user group Professional use

### **Exposed skin surface assumed:**

240 cm<sup>2</sup>.

### 2.4 Process categories [PROC]

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

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

### Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

### **Technical and organisational measures**

Local exhaust ventilation. Air - minimum efficiency of 80 %.

### **Personal protection**

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

### Other conditions affecting workers exposure

Area of use Indoor use
Main user group Professional use

### **Exposed skin surface assumed:**

480 cm<sup>2</sup>.

### 2.5 Process categories [PROC]

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition.

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

### Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

### **Technical and organisational measures**

Local exhaust ventilation. Air - minimum efficiency of 80 %.

### **Personal protection**

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

## Annex to the extended Safety Data Sheet (eSDS)

Methano

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Other conditions affecting workers exposure

Area of use Indoor use
Main user group Professional use

**Exposed skin surface assumed:** 

240 cm<sup>2</sup>.

### 2.6 Process categories [PROC]

PROC4: Chemical production where opportunity for exposure arises.

**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to

<=4 h/day

Use frequency 5 days per week

**Technical and organisational measures** 

Local exhaust ventilation. Air - minimum efficiency of 80 %.

Personal protection

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Professional use

**Exposed skin surface assumed:** 

480 cm<sup>2</sup>.

### 2.7 Process categories [PROC]

PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities.

**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 5 %.

Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Professional use

**Exposed skin surface assumed:** 

960 cm<sup>2</sup>.

# Annex to the extended Safety Data Sheet (eSDS)

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### 2.8 Process categories [PROC]

PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities.

**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 5 %.

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Professional use

**Exposed skin surface assumed:** 

960 cm<sup>2</sup>.

### 2.9 Process categories [PROC]

PROC10: Roller application or brushing.

**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 5 %.

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Professional use

**Exposed skin surface assumed:** 

960 cm<sup>2</sup>.

### 2.10Process categories [PROC]

PROC11: Non industrial spraying.

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**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers concentrations up to 3 %

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

**Personal protection** 

Assumes a good basic standard of occupational hygiene is implemented. Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 90 %.

Wear suitable respiratory protection. Inhalation - minimum efficiency of 90 %.

Other conditions affecting workers exposure

Area of use Indoor use

Main user group Professional use

**Exposed skin surface assumed:** 

1500 cm<sup>2</sup>.

### 2.11Process categories [PROC]

PROC13 Treatment of articles by dipping and pouring.

**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

**Technical and organisational measures** 

Local exhaust ventilation. Air - minimum efficiency of 80 %.

Personal protection

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Professional use

**Exposed skin surface assumed:** 

480 cm<sup>2</sup>.

## Annex to the extended Safety Data Sheet (eSDS)

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### 3 Exposure estimation and reference to its source

### 3.1 Environmental release categories [ERC]

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

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 3.2 Process categories [PROC]

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

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.034286 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.001714

Exposure route Inhalation
Health effect systemic
Exposure indicator long-term

Exposure level 0.133508 mg/m<sup>3</sup>

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.001027

**Exposure route** combined routes

Exposure level 0.053358 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.002741

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.034286 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.001714

Exposure route Inhalation
Health effect systemic
Exposure indicator short-term

Exposure level 0.534032 mg/m<sup>3</sup>

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.004108

**Exposure route** combined routes



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Exposure level 0.110576 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.005822

### 3.3 Process categories [PROC]

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

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.274286 mg/kg bw/day

Calculation method EasyTRA Risk Characterization Ratio (RCR) 0.013714 **Exposure route** Inhalation Health effect systemic **Exposure** indicator long-term Exposure level 13.351 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.102698

Exposure routecombined routesExposure level2.182 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.116413

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.274286 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.013714 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 53.403 mg/m<sup>3</sup> Calculation method **EasyTRA** 0.410794 Risk Characterization Ratio (RCR)

**Exposure route** combined routes
Exposure level 7.903 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.424508

### 3.4 Process categories [PROC]

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

**Exposure route** dermal



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Health effect systemic Exposure indicator long-term

Exposure level 0.137143 mg/kg bw/day

Calculation method **EasyTRA** 0.006857 Risk Characterization Ratio (RCR) **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term Exposure level 26.702 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.205397

**Exposure route** combined routes Exposure level 3.952 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.212254

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.137143 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.006857

Exposure route Inhalation
Health effect systemic
Exposure indicator short-term
Exposure level 106.806 mg/m³

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.821587

**Exposure route** combined routes
Exposure level 15.395 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.828444

### 3.5 Process categories [PROC]

### PROC4: Chemical production where opportunity for exposure arises

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.822857 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.041143 **Exposure route** Inhalation
Health effect systemic
Exposure indicator long-term

# NTIC

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Exposure level 40.052 mg/m³
Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.308095

**Exposure route** combined routes Exposure level 6.545 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.349238

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.822857 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.041143 **Exposure route** Inhalation Health effect systemic **Exposure** indicator short-term Exposure level 18.691 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.143778

**Exposure route** combined routes
Exposure level 3.493 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.184921

### 3.6 Process categories [PROC]

# PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.137143 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.006857 **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term Exposure level 33.377 mg/m<sup>3</sup> Calculation method **EasyTRA** 0.256746 Risk Characterization Ratio (RCR)

**Exposure route** combined routes

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Exposure level 4.905 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.263603 **Exposure route** dermal Health effect systemic **Exposure indicator** short-term

Exposure level 0.137143 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.006857 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 66.754 mg/m<sup>3</sup> Calculation method **EasyTRA** 

Risk Characterization Ratio (RCR) 0.513492

**Exposure route** combined routes Exposure level 9.673 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.520349

### 3.7 Process categories [PROC]

### PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities

**Exposure route** dermal Health effect systemic Exposure indicator long-term

Exposure level 0.137143 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.006857 **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term 16.688 mg/m<sup>3</sup> Exposure level Calculation method **EasyTRA** 

Risk Characterization Ratio (RCR) 0.128373

**Exposure route** combined routes 2.521 mg/kg bw/day Exposure level

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.13523 dermal **Exposure route** Health effect systemic **Exposure indicator** short-term

Exposure level 0.137143 mg/kg bw/day

Calculation method **EasyTRA** 



Methano

Version number: GHS 1.0 Issue date: 2022-03-22

Risk Characterization Ratio (RCR)

Exposure route

Health effect

Exposure indicator

Exposure level

Calculation method

Risk Characterization Ratio (RCR)

0.006857

Inhalation

systemic

short-term

33.377 mg/m³

EasyTRA

Risk Characterization Ratio (RCR)

0.256746

**Exposure route** combined routes Exposure level 4.905 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.263603

### 3.8 Process categories [PROC]

### PROC10: Roller application or brushing

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.274286 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.013714 **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term Exposure level 33.377 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.256746

**Exposure route** combined routes
Exposure level 5.042 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.27046

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.274286 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.013714

Exposure route Inhalation
Health effect systemic
Exposure indicator short-term
Exposure level 66.754 mg/m³
Calculation method EasyTRA

Risk Characterization Ratio (RCR) 0.513492

**Exposure route** combined routes

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Exposure level 9.811 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.527206

3.9 Process categories [PROC]

**PROC11: Non industrial spraying** 

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.321429 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.016071

Exposure route Inhalation
Health effect systemic
Exposure indicator long-term
Exposure level 71.54 mg/m³
Calculation method EasyTRA

Stoffenmanager 8

Risk Characterization Ratio (RCR) 0.550308

**Exposure route** combined routes
Exposure level 10.541 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.566379

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.321429 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.016071

Exposure route Inhalation
Health effect systemic
Exposure indicator short-term
Exposure level 71.54 mg/m³
Calculation method EasyTRA

Stoffenmanager 8

Risk Characterization Ratio (RCR) 0.550308

Exposure routecombined routesExposure level10.541 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.566379

3.10 Process categories [PROC]

PROC13 Treatment of articles by dipping and pouring

**Exposure route** dermal

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Health effect systemic Exposure indicator long-term

Exposure level 2.743 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.137143 **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term 66.754 mg/m<sup>3</sup> Exposure level Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.513492

**Exposure route** combined routes
Exposure level 12.279 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.650635

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 2.743 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.137143 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 13.351 mg/m<sup>3</sup> Calculation method **EasyTRA** 0.102698 Risk Characterization Ratio (RCR)

**Exposure route** combined routes Exposure level 4.65 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.239841

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

### **Environment**

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

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### Health

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

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Methano

Version number: GHS 1.0 Issue date: 2022-03-22

### Exposure Scenario / ES No 11 - Use as laboratory reagent - Professional use

### 1 TITLE SECTION

**Exposure Scenario name:**Use as laboratory reagent - Professional use

**Environmental release categories [ERC]** 

ERC8a: Wide dispersive indoor use of processing aids in open systems.

**Process categories [PROC]** 

PROC10: Roller application or brushing. PROC15: Use as laboratory reagent.

### 2 Conditions of use affecting exposure

### 2.1 Environmental release categories [ERC]

ERC8a: Wide dispersive indoor use of processing aids in open systems.

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 2.2 Process categories [PROC]

PROC10: Roller application or brushing.

**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 5 %.

Frequency, Duration

Covers use up to >4 h/day

Use frequency 5 days per week

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use

Main user group Professional use

**Exposed skin surface assumed:** 

960 cm<sup>2</sup>.

### 2.3 Process categories [PROC]

PROC15: Use as laboratory reagent.

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Version number: GHS 1.0 Issue date: 2022-03-22

**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 100 %.

Frequency, Duration

Covers use up to

>4 h/day

Use frequency 5 days per week

Technical and organisational measures

Local exhaust ventilation. Air - minimum efficiency of 80 %.

**Personal protection** 

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %.

Other conditions affecting workers exposure

Area of use Indoor use
Main user group Professional use

**Exposed skin surface assumed:** 

240 cm<sup>2</sup>.

### 3 Exposure estimation and reference to its source

### 3.1 Environmental release categories [ERC]

### ERC8a: Wide dispersive indoor use of processing aids in open systems

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 3.2 Process categories [PROC]

### PROC10: Roller application or brushing

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.274286 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.013714 Inhalation **Exposure route** Health effect systemic **Exposure indicator** long-term Exposure level 33.377 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.256746

**Exposure route** combined routes

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Exposure level 5.042 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.27046

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.274286 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.013714 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 66.754 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.513492

Exposure routecombined routesExposure level9.811 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.527206

### 3.3 Process categories [PROC]

### PROC15: Use as laboratory reagent

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.068571 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.003429 **Exposure route** Inhalation Health effect systemic **Exposure indicator** long-term 13.351 mg/m<sup>3</sup> Exposure level Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.102698

**Exposure route** combined routes Exposure level 1.976 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.106127

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.068571 mg/kg bw/day

Calculation method EasyTRA

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Risk Characterization Ratio (RCR)

Exposure route

Health effect

Exposure indicator

Exposure level

Calculation method

Risk Characterization Ratio (RCR)

0.003429

Inhalation

systemic

short-term

26.702 mg/m³

Calculation method

EasyTRA

0.205397

Exposure routecombined routesExposure level3.883 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.208825

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

### **Environment**

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

### Health

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

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Methano

Version number: GHS 1.0 Issue date: 2022-03-22

# Exposure Scenario / ES No 12 - Use in cleaning agents/ De-icing and anti-icing applications/ Spray application - Consumer use

### 1 TITLE SECTION

**Exposure Scenario name:**Use in cleaning agents/ De-icing and anti-icing

applications/ spray application - Consumer use

### **Environmental release categories [ERC]**

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

### **Product categories [PC]**

PC4: Anti-freeze and de-icing products - Cleaning. PC4: Anti-freeze and de-icing products - Spraying. PC35: Washing and cleaning products - Cleaning. PC35: Washing and cleaning products - Spraying.

### 2 Conditions of use affecting exposure

### 2.1 Environmental release categories [ERC]

ERC8a: Wide dispersive indoor use of processing aids in open systems.

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 2.2 Environmental release categories [ERC]

ERC8d: Wide dispersive outdoor use of processing aids in open systems.

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 2.3 Products Category [PC]

PC4: Anti-freeze and de-icing products - Cleaning.

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product Covers percentage substance in the product up

to 1 %.

Concentration of substance in product 0.59 %

Amounts used, Frequency, Duration

Covers use up to <= 1 h/day

Amounts used Inhalation: 16.2 g

dermal long-term: 0.310 g dermal short-term: 0.160 g

Frequency 365 days per year

United Kingdom (en)

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### Other conditions affecting consumers exposure

Covers use in room size of 15 m<sup>3</sup>

Ventilation rate 2.5 ach (air changes per hour)

Release area 0.000171 cm<sup>2</sup>

### **Exposed skin surface assumed:**

215 cm<sup>2</sup>.

### 2.4 Products Category [PC]

PC4: Anti-freeze and de-icing products - Spraying.

### **Product characteristics**

Spray application.

Physical form of product Liquid
Concentration of substance in product 0.59 %
Concentration of substance in product (None 5 %

Volatile)

### Amounts used, Frequency, Duration

Covers use up to

<= 1 h/day

Amounts used Inhalation: 16.2 g

dermal: 0.160 g

Spray duration 13.8 sec Release duration 28 sec

Other conditions affecting consumers exposure

Covers use in room size of 15 m<sup>3</sup>

Ventilation rate 2.5 ach (air changes per hour)

Release area 0.000171 cm<sup>2</sup>

### **Exposed skin surface assumed:**

2200 cm<sup>2</sup>.

Skin Exposure level: 46 mg/ min

### 2.5 Products Category [PC]

PC35: Washing and cleaning products - Cleaning.

**Product characteristics** 

Physical form of product Liquid

Concentration of substance in product 1 % (short-term)

5 % (long-term)

Amounts used, Frequency, Duration

Covers use up to

<= 1 h/day

Amounts used Inhalation: 16.2 g dermal: 0.310 g

Frequency 365 days per year

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Other conditions affecting consumers exposure

Covers use in room size of 15 m<sup>3</sup>

Ventilation rate 2.5 ach (air changes per hour)

Release area 0.000171 cm<sup>2</sup>

**Exposed skin surface assumed:** 

225 cm<sup>2</sup>.

### 2.6 Products Category [PC]

PC35: Washing and cleaning products - Spraying.

### **Product characteristics**

Spray application.

Physical form of product Liquid

Concentration of substance in product 1 %. (Short-term)

5 %. (Long-term)

Amounts used, Frequency, Duration

Covers use up to <= 1 h/day

Amounts used Inhalation: 16.2 g

dermal: 0.160 g

Spray duration 13.8 sec Release duration 2824.6 sec

Other conditions affecting consumers exposure

Covers use in room size of 15 m<sup>3</sup>

Ventilation rate 2.5 ach (air changes per hour)

Release area 0.000171 cm<sup>2</sup>

**Exposed skin surface assumed:** 

2200 cm<sup>2</sup>.

Skin Exposure level: 46 mg/ min

### 3 Exposure estimation and reference to its source

### 3.1 Environmental release categories [ERC]

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

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 3.2 Product categories [PC]

### PC4: Anti-freeze and de-icing products - Cleaning

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.026584 mg/kg bw/day



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Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.006646

Exposure route Inhalation
Health effect systemic
Exposure indicator long-term

Exposure level 0.097454 mg/m<sup>3</sup>

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.003748

**Exposure route** combined routes

Exposure level 0.028526 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.010394

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.014523 mg/kg bw/day

Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.003631 **Exposure route** Inhalation Health effect systemic **Exposure** indicator short-term Exposure level 2.339 mg/m<sup>3</sup> Calculation method **EasyTRA** 0.089957 Risk Characterization Ratio (RCR)

**Exposure route** combined routes
Exposure level 0.06385 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.093588

### 3.3 Product categories [PC]

### PC4: Anti-freeze and de-icing products - Spraying

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.001841 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.00046

Exposure route Inhalation
Health effect systemic
Exposure indicator long-term

Exposure level 0.012323 mg/m<sup>3</sup>

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.000474



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**Exposure route** combined routes

Exposure level 0.002086 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.000934

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.001841 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.00046

Exposure route Inhalation
Health effect systemic
Exposure indicator short-term

Exposure level 0.295756 mg/m<sup>3</sup>

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.011375

**Exposure route** combined routes

Exposure level 0.007734 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.011835

### 3.4 Product categories [PC]

### PC35: Washing and cleaning products - Cleaning

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.225291 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.056323

Exposure route Inhalation
Health effect systemic
Exposure indicator long-term

Exposure level 0.825882 mg/m<sup>3</sup>

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.031765

**Exposure route** combined routes

Exposure level 0.241746 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.088087

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.045058 mg/kg bw/day



Methanol

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Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.011265 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 3.964 mg/m<sup>3</sup> Calculation method **EasyTRA** 0.15247 Risk Characterization Ratio (RCR)

**Exposure route** combined routes

Exposure level 0.124045 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.163734

### 3.5 Product categories [PC]

### PC35: Washing and cleaning products - Spraying

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 1.574 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.393446

Exposure route Inhalation
Health effect systemic
Exposure indicator long-term

Exposure level 0.102838 mg/m<sup>3</sup>

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.003955

**Exposure route** combined routes Exposure level 1.576 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.397401

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.00312 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.00078

Exposure route Inhalation
Health effect systemic
Exposure indicator short-term
Exposure level 0.493621 mg/m³

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.018985



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**Exposure route** combined routes

Exposure level 0.012955 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.019765

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

### **Environment**

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

### Health

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.



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Version number: GHS 1.0 Issue date: 2022-03-22

# Exposure Scenario / ES No 13 - Use in cleaning agents/ De-icing and anti-icing applications/ Liquid products - Consumer use

### 1 TITLE SECTION

**Exposure Scenario name:**Use in cleaning agents/ De-icing and anti-icing

applications/ liquid products - Consumer use

### **Environmental release categories [ERC]**

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

### **Product categories [PC]**

PC4: Anti-freeze and de-icing products PC35: Washing and cleaning products.

### 2 Conditions of use affecting exposure

### 2.1 Environmental release categories [ERC]

ERC8a: Wide dispersive indoor use of processing aids in open systems.

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 2.2 Environmental release categories [ERC]

ERC8d: Wide dispersive outdoor use of processing aids in open systems.

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 2.3 Products Category [PC]

PC4: Anti-freeze and de-icing products

### **Product characteristics**

Physical form of product Liquid
Concentration of substance in product 0.59 %

### Amounts used, Frequency, Duration

Covers use up to

<= 4 h/day

Amounts used Inhalation: 100 g

dermal: 5 g

Frequency 197 days per year

### Other conditions affecting consumers exposure

Covers use in room size of 58 m<sup>3</sup>

Ventilation rate 0.5 ach (air changes per hour)

Release area 0.000032 cm<sup>2</sup>

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### **Exposed skin surface assumed:**

2200 cm<sup>2</sup>.

### 2.4 Products Category [PC]

PC35: Washing and cleaning products - Spraying.

### **Product characteristics**

Physical form of product Liquid Concentration of substance in product 1 %.

### Amounts used, Frequency, Duration

Covers use up to

<= 4 h/day

Amounts used In

Inhalation: 100 g dermal: 5 g

Frequency 197 days per year

Other conditions affecting consumers exposure

Covers use in room size of 58 m<sup>3</sup>

Ventilation rate 0.5 ach (air changes per hour)

Release area 0.000032 cm<sup>2</sup>

**Exposed skin surface assumed:** 

2200 cm<sup>2</sup>.

### 3 Exposure estimation and reference to its source

### 3.1 Environmental release categories [ERC]

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

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 3.2 Product categories [PC]

### PC4: Anti-freeze and de-icing products

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.231423 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.057856
Exposure route Inhalation
Health effect systemic
Exposure indicator long-term

Exposure level 0.722239 mg/m<sup>3</sup>

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.027778



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**Exposure route** combined routes

Exposure level 0.288985 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.085634

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.428779 mg/kg bw/day

Calculation method EasyTRA Risk Characterization Ratio (RCR) 0.107195 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 4.333 mg/m<sup>3</sup> Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.166671

**Exposure route** combined routes

Exposure level 0.774154 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.273866

### 3.3 Product categories [PC]

### PC35: Washing and cleaning products

Risk Characterization Ratio (RCR)

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 0.392243 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.098061

Exposure route Inhalation
Health effect systemic
Exposure indicator long-term
Exposure level 1.224 mg/m³
Calculation method EasyTRA

**Exposure route** combined routes

Exposure level 0.489806 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.145143

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 0.726744 mg/kg bw/day

0.047082

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Calculation method **EasyTRA** Risk Characterization Ratio (RCR) 0.181686 **Exposure route** Inhalation Health effect systemic **Exposure indicator** short-term Exposure level 7.345 mg/m<sup>3</sup> Calculation method **EasyTRA** 0.282494 Risk Characterization Ratio (RCR)

Exposure routecombined routesExposure level1.312 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.46418

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

### **Environment**

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

### Health

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

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### Exposure Scenario / ES No 14 - Use as a fuel Additive - Consumer use/ Outdoor use

### 1 TITLE SECTION

**Exposure Scenario name:**Use as a fuel Additive - Consumer use/ Outdoor

use

**Environmental release categories [ERC]** 

ERC8e: Wide dispersive outdoor use of reactive substances in open systems.

**Product categories [PC]** 

PC13: Fuels.

### 2 Conditions of use affecting exposure

### 2.1 Environmental release categories [ERC]

ERC8e: Wide dispersive outdoor use of reactive substances in open systems.

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 2.2 Products Category [PC]

PC13: Fuels.

### **Product characteristics**

Physical form of product Liquid

Concentration of substance in product 2 % (short-term) 3 % (long-term)

Amounts used, Frequency, Duration

Covers use up to 10 min/day

Amounts used

Inhalation: short-term: 10 g

Inhalation: long-term: 0.0005 g

dermal: 10 g

Frequency 2 days per week

### Other conditions affecting consumers exposure

Covers use in room size of 20 m<sup>3</sup>

Ventilation rate 0.5 ach (air changes per hour)

Release area 2 cm<sup>2</sup>

### **Exposed skin surface assumed:**

430 cm<sup>2</sup>.

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### 3 Exposure estimation and reference to its source

### 3.1 Environmental release categories [ERC]

### ERC8e: Wide dispersive outdoor use of reactive substances in open systems

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 3.2 Product categories [PC]

PC13: Fuels

Exposure routedermalHealth effectsystemicExposure indicatorlong-term

Exposure level 1.319 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.32967

Exposure route Inhalation
Health effect systemic
Exposure indicator long-term

Exposure level 0.002716 mg/m<sup>3</sup>

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.000104

**Exposure route** combined routes Exposure level 1.319 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.329775

Exposure route dermal
Health effect systemic
Exposure indicator short-term

Exposure level 2.907 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.726744

Exposure route Inhalation
Health effect systemic
Exposure indicator short-term

Exposure level 0.266072 mg/m<sup>3</sup>

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.010234

Exposure routecombined routesExposure level2.908 mg/kg bw/day

Calculation method EasyTRA
Risk Characterization Ratio (RCR) 0.736978



Methanol

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

### **Environment**

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

### Health

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.