

# Safety data sheet

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BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 01.10.2023

Version: 16.0

Date previous version: 14.11.2022

Previous version: 15.0

Date / First version: 21.05.2002

Product: **SOLVENON® PM**

(ID no. 30034847/SDS\_GEN\_GB/EN)

Date of print 13.10.2025

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

### 1.1. Product identifier

## **SOLVENON® PM**

Chemical name: 1-methoxy-2-propanol

INDEX-Number: 603-064-00-3

CAS Number: 107-98-2

REACH registration number: 01-2119457435-35-0004, 01-2119457435-35-0033, 01-2119457435-35-0032, 01-2119457435-35-0036, 01-2119457435-35

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

Relevant identified uses: solvent(s)

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

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

Company:

BASF SE  
67056 Ludwigshafen  
GERMANY

Contact address:

BASF plc  
4th and 5th Floors, 2 Stockport Exchange  
Railway Road, Stockport, SK1 3GG  
UNITED KINGDOM

Telephone: +44 161 475 3000

E-mail address: product-safety-uk-and-ireland@basf.com

### 1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

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## SECTION 2: Hazards Identification

### 2.1. Classification of the substance or mixture

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Flam. Liq. 3  
STOT SE 3

H226 Flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.

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

### 2.2. Label elements

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Pictogram:



Signal Word:

Warning

Hazard Statement:

H226 Flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.

Precautionary Statements (Prevention):

P271 Use only outdoors or in a well-ventilated area.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 Wear protective gloves and eye protection or face protection.

Precautionary Statements (Response):

P312 Call a POISON CENTER or physician if you feel unwell.

Precautionary Statements (Storage):

P233 Keep container tightly closed.

Precautionary Statements (Disposal):

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

Hazard determining component(s) for labelling: 1-methoxy-2-propanol

### 2.3. Other hazards

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

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If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

See section 12 - Results of PBT and vPvB assessment.

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

## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

#### Chemical nature

1-methoxy-2-propanol (Content (W/W):  $\geq 99.5\%$ )  
 CAS Number: 107-98-2  
 EC-Number: 203-539-1  
 INDEX-Number: 603-064-00-3

#### Hazardous ingredients (GHS)

1-methoxy-2-propanol	
Content (W/W): $\geq 99.5\%$ - $\leq 100\%$	Flam. Liq. 3
CAS Number: 107-98-2	STOT SE 3 (drowsiness and dizziness)
EC-Number: 203-539-1	H226, H336
INDEX-Number: 603-064-00-3	

2-methoxypropanol	
Content (W/W): $\geq 0\%$ - $< 0.3\%$	Flam. Liq. 3
CAS Number: 1589-47-5	Skin Corr./Irrit. 2
EC-Number: 216-455-5	Eye Dam./Irrit. 1
	Repr. 1B (unborn child)
	STOT SE 3 (irr. to respiratory syst.)
	H226, H318, H315, H335, H360D

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

### 3.2. Mixtures

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Not applicable

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## SECTION 4: First-Aid Measures

### 4.1. Description of first aid measures

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

If inhaled:

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

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

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

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

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

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing media

Suitable extinguishing media:

dry powder, water spray, carbon dioxide, alcohol-resistant foam

Unsuitable extinguishing media for safety reasons:

water jet

Additional information:

Use extinguishing measures to suit surroundings.

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

Advice: Flammable liquid Cool endangered containers with water-spray. See SDS section 7 - Handling and storage.

## 5.3. Advice for fire-fighters

Special protective equipment:

Wear a self-contained breathing apparatus. Special protective equipment for firefighters

Further information:

Evacuate area of all unnecessary personnel. Fight fire from maximum distance.

Extend fire extinguishing measures to the surroundings. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## SECTION 6: Accidental Release Measures

High risk of slipping due to leakage/spillage of product.

Release of substance/product can cause fire or explosion. Shut off or stop source of leak. Shut off or stop released substance/product under safe conditions.

Pack in tightly closed containers for disposal.

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

Handle in accordance with good industrial hygiene and safety practice.

Avoid all sources of ignition: heat, sparks, open flame. Use antistatic tools.

### 6.2. Environmental precautions

Discharge into the environment must be avoided. Collect contaminated washing water for appropriate disposal.

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

Pick up with suitable appliance and dispose of. Spills should be contained, solidified, and placed in suitable containers for disposal. Dispose of absorbed material in accordance with regulations.

### 6.4. Reference to other sections

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

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## SECTION 7: Handling and Storage

### 7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

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Avoid all sources of ignition: heat, sparks, open flame. Ground all transfer equipment properly to prevent electrostatic discharge.

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

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

## 7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

# SECTION 8: Exposure Controls/Personal Protection

## 8.1. Control parameters

### Components with occupational exposure limits

107-98-2: 1-methoxy-2-propanol

TWA value 375 mg/m<sup>3</sup> ; 100 ppm (WEL/EH 40 (UK))

Skin Designation (WEL/EH 40 (UK))

The substance can be absorbed through the skin.

STEL value 568 mg/m<sup>3</sup> ; 150 ppm (OEL (EU))

indicative

Skin Designation (OEL (EU))

The substance can be absorbed through the skin.

TWA value 375 mg/m<sup>3</sup> ; 100 ppm (OEL (EU))

indicative

STEL value 560 mg/m<sup>3</sup> ; 150 ppm (WEL/EH 40 (UK))

Ceiling limit value/factor: 15 min

### PNEC

freshwater: 10 mg/l

marine water: 1 mg/l

intermittent release: 100 mg/l

STP: 100 mg/l

sediment (freshwater): 41.6 mg/kg

soil: 2.47 mg/kg

sediment (marine water): 4.17 mg/kg

### DNEL

worker:

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Short-term exposure - systemic and local effects, Inhalation: 553.5 mg/m<sup>3</sup>

worker:

Long-term exposure- systemic effects, dermal: 183 mg/kg

worker:

Long-term exposure- systemic effects, Inhalation: 369 mg/m<sup>3</sup>

consumer:

Long-term exposure- systemic effects, dermal: 78 mg/kg

consumer:

Long-term exposure- systemic effects, Inhalation: 43.9 mg/m<sup>3</sup>

consumer:

Long-term exposure- systemic effects, oral: 33 mg/kg

## 8.2. Exposure controls

### Personal protective equipment

Respiratory protection:

Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

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

butyl rubber (butyl) - 0.7 mm coating thickness

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

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

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

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

### General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

### Environmental exposure controls

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All appropriate measures must be taken to prevent the release of this product to the environment and to limit the dispersion of any release when it occurs. Suitable risk management measures should be in place.

## SECTION 9: Physical and Chemical Properties

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

Form:	liquid	
Colour:	colourless	
Odour:	mild, alcohol-like	
Odour threshold:	not determined	
pH value:	(20 °C)	
	soluble, neutral	
Melting point:	-95 °C	(other)
	(1,013 hPa)	
	Literature data.	
Boiling point:	119.8 °C	(other)
	(1,013 hPa)	
Flash point:	31.5 °C	(DIN 51755, closed cup)
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	
Flammability:	Flammable liquid and vapour.	(derived from flash - and boiling point)
Lower explosion limit:	1.7 %(V)	(air)
	(27 °C)	
	The lower explosion point of the substance/mixture has been determined. The explosion point describes the temperature of a flammable liquid at which the concentration of the saturated vapour mixed with air equals the lower explosion limit.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Ignition temperature:	287 °C	(Directive 92/69/EEC, A.15)
Vapour pressure:	17.1 hPa	(measured)
	(25.1 °C)	
	dynamic	
Density:	0.92 g/cm <sup>3</sup>	(DIN 51757)
	(20 °C, 1,013 hPa)	
Relative density:	0.92	
	(20 °C)	



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Relative vapour density (air):	3.1 (20 °C) Heavier than air.	(calculated)
Solubility in water:	Literature data., miscible (20 °C)	(other)
Solubility (qualitative) solvent(s):	organic solvents soluble	
Partitioning coefficient n-octanol/water (log Kow):	-0.43 (25 °C) Literature data.	(measured)
Self ignition:	Temperature: 20 °C Based on its structural properties the product is not classified as self-igniting.	Test type: Spontaneous self-ignition at room-temperature.
Thermal decomposition:	No data available.	
Viscosity, dynamic:	1.81 mPa.s (20 °C) Literature data.	
Explosion hazard:	Based on the chemical structure there is no indication of explosive properties.	
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.	

## 9.2. Other information

pKA:	The substance does not dissociate.	
Adsorption/water - soil:	log KOC: -0.69 Adsorption to solid soil phase is not expected.	(calculated)
Surface tension:	70.7 mN/m (20 °C) Based on chemical structure, surface activity is not to be expected.	(OECD Guideline 115, OECD harmonized ring method)
Grain size distribution:	Test substance	The substance / product is marketed or used in a non solid or granular form.
Molar mass:	90.12 g/mol	

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

| When heated can give off ignitable vapours.

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Corrosion to metals: No corrosive effect on metal.

Formation of Remarks:

flammable gases:

Forms no flammable gases in the presence of water.

## 10.2. Chemical stability

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

## 10.3. Possibility of hazardous reactions

Reacts with strong oxidizing agents.

## 10.4. Conditions to avoid

Avoid extreme heat. Avoid sources of ignition.

## 10.5. Incompatible materials

Substances to avoid:

strong oxidizing agents

## 10.6. Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

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# SECTION 11: Toxicological Information

## 11.1. Information on toxicological effects

### Acute toxicity

Assessment of acute toxicity:

Of low toxicity after single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Experimental/calculated data:

LD50 rat (oral): 4,016 mg/kg (similar to OECD guideline 401)

LC0 rat (by inhalation): > 7000 ppm 6 h (similar to OECD guideline 403)

The vapour was tested.

LD50 rat (dermal): > 2,000 mg/kg (similar to OECD guideline 402)

### Irritation

Assessment of irritating effects:

Not irritating to the skin. Not irritating to the eyes.

Experimental/calculated data:

Skin corrosion/irritation

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rabbit: non-irritant (similar to OECD guideline 404)

Serious eye damage/irritation

rabbit: non-irritant (similar to OECD guideline 405)

#### Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data:

guinea pig: Non-sensitizing. (other)

#### Germ cell mutagenicity

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in a test with mammals.

#### Carcinogenicity

Assessment of carcinogenicity:

In long-term studies in rats and mice in which the substance was given by inhalation, a carcinogenic effect was not observed.

#### Reproductive toxicity

Assessment of reproduction toxicity:

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

#### Developmental toxicity

Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies.

#### Experiences in humans

Experimental/calculated data:

High concentrations have a narcotizing effect.

#### Specific target organ toxicity (single exposure)

Assessment of STOT single:

Possible narcotic effects (drowsiness or dizziness).

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

Assessment of repeated dose toxicity:

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No adverse effects were observed after repeated dermal exposure in animal studies. The substance may cause damage to the liver after repeated inhalation of high doses. The substance may cause damage to the liver after repeated ingestion of high doses, as shown in animal studies.

#### Aspiration hazard

not applicable

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## SECTION 12: Ecological Information

### 12.1. Toxicity

Assessment of aquatic toxicity:

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

Toxicity to fish:

LC50 (96 h) > 6,800 mg/l, *Leuciscus idus* (DIN 38412 Part 15, static)

Nominal concentration.

Aquatic invertebrates:

LC50 (48 h) 23,300 mg/l, *Daphnia magna* (Daphnia test acute, static)

Nominal concentration.

Aquatic plants:

EC50 (7 d) > 1,000 mg/l (growth rate), *Pseudokirchneriella subcapitata* (Algal growth inhibition test)

Nominal concentration.

Microorganisms/Effect on activated sludge:

EC50 (3 h) > 1,000 mg/l, activated sludge, domestic (OECD Guideline 209)

Nominal concentration. Literature data.

Chronic toxicity to fish:

No data available.

Chronic toxicity to aquatic invertebrates:

No data available.

Assessment of terrestrial toxicity:

No data available.

### 12.2. Persistence and degradability

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

Readily biodegradable (according to OECD criteria).

Elimination information:

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90 - 100 % DOC reduction (28 d) (OECD 301E/92/69/EWG, C.4-B) (aerobic, municipal sewage treatment plant effluent)

Assessment of stability in water:

According to structural properties, hydrolysis is not expected/probable.

The product has not been tested. The statement has been derived from the structure of the product.

Information on Stability in Water (Hydrolysis):

According to structural properties, hydrolysis is not expected/probable.

### 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Bioaccumulation potential:

No data available.

### 12.4. Mobility in soil

Assessment transport between environmental compartments:

Volatility: The substance will not evaporate into the atmosphere from the water surface.

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

### 12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

### 12.6. Other adverse effects

The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

### 12.7. Additional information

Adsorbable organically-bound halogen (AOX):

This product contains no organically-bound halogen.

Other ecotoxicological advice:

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

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## SECTION 13: Disposal Considerations

### 13.1. Waste treatment methods

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The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (United Kingdom)

Contaminated packaging:

Disposal must be made according to official regulations.

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## SECTION 14: Transport Information

### Land transport

ADR

UN number or ID number: UN3092  
UN proper shipping name: 1-METHOXY-2-PROPANOL  
Transport hazard class(es): 3  
Packing group: III  
Environmental hazards: no  
Special precautions for user: Tunnel code: D/E

RID

UN number or ID number: UN3092  
UN proper shipping name: 1-METHOXY-2-PROPANOL  
Transport hazard class(es): 3  
Packing group: III  
Environmental hazards: no  
Special precautions for user: None known

### Inland waterway transport

ADN

UN number or ID number: UN3092  
UN proper shipping name: 1-METHOXY-2-PROPANOL  
Transport hazard class(es): 3  
Packing group: III  
Environmental hazards: no  
Special precautions for user: None known

### Transport in inland waterway vessel

UN number or ID number: UN3092  
UN proper shipping name: 1-METHOXY-2-PROPANOL

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

### **Sea transport**

#### **IMDG**

UN number or ID number: UN 3092  
 UN proper shipping name: 1-METHOXY-2-PROPANOL  
 Transport hazard class(es): 3  
 Packing group: III  
 Environmental hazards: no  
 Marine pollutant: NO

Special precautions for user:

### **Air transport**

#### **IATA/ICAO**

UN number or ID number: UN 3092  
 UN proper shipping name: 1-METHOXY-2-PROPANOL  
 Transport hazard class(es): 3  
 Packing group: III  
 Environmental hazards: No Mark as dangerous for the environment is needed  
 Special precautions for user: None known

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

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

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

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

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

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

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

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

#### 14.5. Environmental hazards

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

#### 14.6. Special precautions for user

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

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

Regulation: IBC-Code

Product name: Propylene glycol monoalkyl ether

Pollution category: Z

Ship Type: 3

#### Further information

This product is subject to the most recent edition of "The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations" and their amendments (United Kingdom).

## SECTION 15: Regulatory Information

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

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

List entry in regulation: P5a

List entry in regulation: P5b

List entry in regulation: P5c

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

This product may be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments if specific threshold tonnages are exceeded (United Kingdom).

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

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## 15.2. Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

## SECTION 16: Other Information

### Assessment of the hazard classes according to UN GHS criteria (most recent version)

STOT SE 3 (Vapours may cause drowsiness and dizziness.)

Flam. Liq. 3

Acute Tox. 5 (oral)

### Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Flam. Liq.	Flammable liquids
STOT SE	Specific target organ toxicity — single exposure
Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
Repr.	Reproductive toxicity
H226	Flammable liquid and vapour.
H336	May cause drowsiness or dizziness.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H360D	May damage the unborn child.

### Abbreviations

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

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the

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corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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Vertical lines in the left hand margin indicate an amendment from the previous version.

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## Annex: Exposure Scenarios

### Index

**1. Manufacture of substance, (use in industrial settings)**

IS; IS; ERC1; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15

**2. Use as an intermediate, (use in industrial settings)**

IS; IS; ERC6a; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15

**3. Formulation & (re)packing of substances and mixtures, (use in industrial settings)**

IS; IS; ERC2; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15

**4. Use in Coatings, (use in industrial settings)**

IS; IS; ERC4; PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15

**5. Use in Coatings, (use in industrial settings)**

IS; IS; ERC4; PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15

**6. Use in Cleaning Agents, (use in industrial settings)**

IS; IS; ERC4; PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13

**7. Use in Coatings, (use in professional settings)**

PW; PW; ERC8a, ERC8d; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19

**8. Use in Coatings, (use in professional settings)**

PW; PW; ERC8a, ERC8b; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19

**9. Use in Cleaning Agents, (use in professional settings)**

PW; PW; ERC8a, ERC8d; PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13

**10. Use in Agrochemicals, (use in professional settings)**

PW; PW; ERC8d; PROC2, PROC4, PROC8a, PROC8b, PROC11, PROC13

**11. Use in Coatings, (consumer use)**

C; C; ERC8a, ERC8d; PC9

**12. Use in Coatings, (consumer use)**

C; C; ERC8a, ERC8d; PC9

**13. Use in Cleaning Agents, (consumer use)**

C; C; ERC8a, ERC8d; PC35

**14. Use in Personal care products, (consumer use)**

C; C; ERC8a

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**15. Use in De-icing and Anti-icing agents, (consumer use)**

C; C; ERC8a, ERC8d; PC4

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## 1. Short title of exposure scenario

Manufacture of substance, (use in industrial settings)

IS; IS; ERC1; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15

## Control of exposure and risk management measures

Control of exposure and risk management measures		
Contributing exposure scenario		
Use descriptors covered		ERC1: Manufacture of the substance
Operational conditions		
Annual amount used in the EU		200,000,000 kg
Daily amount per site		400,000 kg
Minimum emission days per year		300
Continuous		
Emission factor air		0.1 %
Emission factor water		0.3 %
Emission factor soil		0.01 %
		Use in closed process Releases based on A&B-tables taken from TGD 2003
Dilution factor river		10
Dilution factor coast		100
Risk Management Measures		
		Prevent discharge of undissolved substance to or recover from wastewater
Type of STP		Municipal STP
Total effc. of removal from wastewater after RMMs and STP(%)		87.3 %
Assumed sewage treatment plant flow (m3/d)		2,000 m3/d
Waste-Related Measures		
		Dispose of waste cans and containers according to local regulations
Exposure estimate and reference to its source		
Risk Characterization Ratio (RCR)		0.757
		Risk from environmental exposure is driven by freshwater., Risk from environmental exposure is driven by marine water.
Maximum amount of safe use		527.982

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	kg/d
Risk from environmental exposure is driven by freshwater., Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.04 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.0001
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.34 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions General exposures Continuous process (closed systems) with sample collection Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.

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<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.1
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1.37 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.03
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Process sampling (closed systems) Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	15 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	3.75 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.01
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.34 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Bulk product storage (closed systems) Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol

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	Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.1
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1.37 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.03
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use in contained batch processes Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	93.85 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.25
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.34 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for

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	exposure arises General exposures (open systems) Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	75.08 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.2
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.86 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.14
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Equipment maintenance Cleaning Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.71 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.27
<b>Guidance to Downstream Users</b>	



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<http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3>

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Bulk transfer Dedicated facility Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Clear transfer lines prior to de-coupling	
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.86 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.14
<b>Guidance to Downstream Users</b>	
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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Laboratory activities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>

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Risk Characterization Ratio (RCR)	0.1
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.34 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

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## 2. Short title of exposure scenario

Use as an intermediate, (use in industrial settings)

IS; IS; ERC6a; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15

## Control of exposure and risk management measures

Control of exposure and risk management measures		
Contributing exposure scenario		
Use descriptors covered	ERC6a: Use of intermediate	
Operational conditions		
Annual amount used in the EU	57,200,000 kg	
Daily amount per site	38,133 kg	
Minimum emission days per year	300	
Continuous		
Emission factor air	0.01 %	
Emission factor water	0.05 %	
Emission factor soil	0.01 %	
	Releases based on A&B-tables taken from TGD 2003	
	Wet formulation	
Dilution factor river	10	
Dilution factor coast	100	
Risk Management Measures		
	Prevent discharge of undissolved substance to or recover from wastewater	
Type of STP		Municipal STP
Total effic. of removal from wastewater after RMMs and STP(%)		87.3 %
Assumed sewage treatment plant flow (m3/d)		2,000 m3/d
Waste-Related Measures		
	Dispose of waste cans and containers according to local regulations	
Exposure estimate and reference to its source		
Risk Characterization Ratio (RCR)	0.0129	

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	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	2,851.573 t/d
Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.04 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.0001
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.34 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions General exposures Continuous process (closed systems) with sample collection Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week

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	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.1
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1.37 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.03
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Bulk product storage (closed systems) Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.1
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1.37 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.03
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Process sampling (closed systems) Use domain: industrial

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<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	15 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	3.75 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.01
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.34 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use in contained batch processes Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	93.85 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.25
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.34 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises General exposures (open systems) Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	75.08 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.2
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.86 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.14
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Equipment maintenance Cleaning Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.71 mg/kg bw/day

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Risk Characterization Ratio (RCR)	0.27
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Bulk transfer Dedicated facility Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Clear transfer lines prior to de-coupling	
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.86 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.14
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Laboratory activities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker

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	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.1
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.34 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

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### 3. Short title of exposure scenario

Formulation & (re)packing of substances and mixtures, (use in industrial settings)

IS; IS; ERC2; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15

### Control of exposure and risk management measures

Control of exposure and risk management measures		
Contributing exposure scenario		
Use descriptors covered	ERC2: Formulation into mixture	
Operational conditions		
Annual amount used in the EU	63,050,000 kg	
Daily amount per site	84,066 kg	
Minimum emission days per year	300	
Continuous		
Emission factor air	0.5 %	
Emission factor water	0.3 %	
Emission factor soil	0.01 %	
	Releases based on A&B-tables taken from TGD 2003	
Dilution factor river	10	
Dilution factor coast	100	
Risk Management Measures		
	Prevent discharge of undissolved substance to or recover from wastewater	
Type of STP	Municipal STP	
Total effc. of removal from wastewater after RMMs and STP(%)	87.3 %	
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d	
Waste-Related Measures		
	Dispose of waste cans and containers according to local regulations	



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<b>Exposure estimate and reference to its source</b>	
Risk Characterization Ratio (RCR)	0.1603
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	524,614 kg/d
Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.04 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.0001
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.34 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions General exposures Continuous process (closed systems) with sample collection Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity

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Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.1
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1.37 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.03
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Bulk product storage (closed systems) Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.1
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1.37 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.03
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

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

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	contained batch processes Process sampling Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	93.85 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.25
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.34 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Batch processes at elevated temperatures (closed systems) Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Operation is carried out at elevated temperature ( $> 20^\circ\text{C}$ above ambient temperature).
<b>Risk Management Measures</b>	
Provide extract ventilation to points where emissions occur (LEV).	Effectiveness: 90 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.1

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Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.34 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Process sampling (closed systems) Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	3.75 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.01
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.34 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises General exposures (open systems) Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.

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<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	75.08 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.2
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.86 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.14
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes Mixing operations (open systems) Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.71 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.27
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Equipment maintenance Cleaning Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity

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Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.71 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.27
<b>Guidance to Downstream Users</b>	
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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Transfer from/pouring from containers (manual) Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.71 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.27
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

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

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<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Clear transfer lines prior to de-coupling	
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.86 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.14
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Drum/Batch transfers Dedicated facility Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.86 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.14
<b>Guidance to Downstream Users</b>	

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<http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3>

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Drum and small package filling Dedicated facility Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.86 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.14
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC14: Tableting, compression, extrusion, pelletisation, granulation Production or preparation of articles by tableting, compression, extrusion or pelletisation Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51



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Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	3.43 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.07
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Laboratory activities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.1
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.34 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

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#### 4. Short title of exposure scenario

Use in Coatings, (use in industrial settings)

IS; IS; ERC4; PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15

#### Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
<b>Operational conditions</b>	
Annual amount used in the EU	63,050,000 kg
Daily amount per site	105,087 kg

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Minimum emission days per year Continuous	300
Emission factor air	27 %
Emission factor water	2 %
Emission factor soil	0.1 %
	Releases based on A&B-tables taken from TGD 2003
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Treat air emissions to provide a typical removal efficiency of (%)	70 %
	Prevent discharge of undissolved substance to or recover from wastewater
Type of STP	Municipal STP
Total effc. of removal from wastewater after RMMs and STP(%)	87.3 %
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Waste-Related Measures</b>	
	Dispose of waste cans and containers according to local regulations
<b>Exposure estimate and reference to its source</b>	
Risk Characterization Ratio (RCR)	0.1338
	Risk from environmental exposure is driven by freshwater., Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	79,180 kg/d
Risk from environmental exposure is driven by freshwater., Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
Assumes use at not more than 20°C above ambient	

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	temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.04 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.0001
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.34 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions General exposures Continuous process (closed systems) with sample collection Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.1
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1.37 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.03
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Film formation - force drying, stoving or UV/EB radiation curing. Use domain: industrial

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<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Operation is carried out at elevated temperature ( $> 20^{\circ}\text{C}$ above ambient temperature).
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1.37 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.03
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Mixing operations General exposures (closed systems) Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than $20^{\circ}\text{C}$ above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	93.85 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.25
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.34 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Film formation - air drying Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	75.08 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.2
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.86 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.14
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes Preparation of material for application Mixing operations (open systems) Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic

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Exposure estimate	13.71 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.27
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC7: Industrial spraying Spraying (automatic/robotic) Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Carry out in a vented booth or extracted enclosure.	Effectiveness: 95 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	46.93 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.13
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2.14 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.04
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC7: Industrial spraying Spraying (manual) Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of controlled ventilation (10 to 15 air changes per	Effectiveness: 70 %

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hour)	
Wear suitable gloves tested to EN ISO 374-1.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	281.56 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.76
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	8.57 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.17
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Material transfers Non-dedicated facility Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.71 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.27
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

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

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Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.86 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.14
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Material transfers Drum/Batch transfers Transfer from/pouring from containers Dedicated facility Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.86 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.14
<b>Guidance to Downstream Users</b>	
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<b>Contributing exposure scenario</b>	



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<b>Use descriptors covered</b>	PROC10: Roller application or brushing Roller, spreader, flow application Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Wear suitable gloves tested to EN ISO 374-1.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	5.49 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.11
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Dipping, immersion and pouring Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic

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Exposure estimate	13.71 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.27
<b>Guidance to Downstream Users</b>	
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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC14: Tableting, compression, extrusion, pelletisation, granulation Production or preparation of articles by tableting, compression, extrusion or pelletisation Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	3.43 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.07
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Laboratory activities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>

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Product: **SOLVENON® PM**

(ID no. 30034847/SDS\_GEN\_GB/EN)

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Risk Characterization Ratio (RCR)	0.1
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.34 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

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## 5. Short title of exposure scenario

Use in Coatings, (use in industrial settings)

IS; IS; ERC4; PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
<b>Operational conditions</b>	
Annual amount used in the EU	2,600,000 kg
Daily amount per site	430 kg
Minimum emission days per year Continuous	300
Emission factor air	80 %
Emission factor water	10 %
Emission factor soil	0.1 %
	Releases based on A&B-tables taken from TGD 2003
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
	Prevent discharge of undissolved substance to or recover from wastewater
Type of STP	Municipal STP
Total effc. of removal from wastewater after RMMs and STP(%)	87.3 %
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Waste-Related Measures</b>	
	Dispose of waste cans and containers according to local regulations
<b>Exposure estimate and reference to its source</b>	

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Risk Characterization Ratio (RCR)	0.029
	Risk from environmental exposure is driven by freshwater., Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	140,104 kg/d
Risk from environmental exposure is driven by freshwater., Risk from environmental exposure is driven by marine water.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. (closed systems) General exposures Use domain: industrial
Operational conditions	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 5\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
Exposure estimate and reference to its source	
PROC1	
Assessment method	ESIG GES tool, Worker
	Worker - all relevant routes
	In case the identified operational conditions and risk management measures are applied:, The use is assessed to be safe.
Guidance to Downstream Users	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions General exposures (closed systems) with sample collection Use domain: industrial
Operational conditions	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 5\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week

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	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	7.51 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.02
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1.37 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.03
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Film formation - force drying, stoving or UV/EB radiation curing. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 5 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Operation is carried out at elevated temperature (> 20°C above ambient temperature).
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.1
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1.37 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.03
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Mixing operations General exposures (closed systems)

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	Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 5 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	18.77 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.05
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.34 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Film formation - air drying Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 5 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	15.02 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.04
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.86 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.14
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes Preparation of material for application Mixing operations (open systems) Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 5\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.1
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.71 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.27
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC7: Industrial spraying Spraying (automatic/robotic) Spraying (manual) Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 5\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Wear suitable gloves tested to EN ISO 374-1.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51

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Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	8.57 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.17
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC7: Industrial spraying Spraying (manual) Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 5\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Wear suitable gloves tested to EN ISO 374-1.	
<b>Exposure estimate and reference to its source</b>	
PROC7	
Assessment method	ESIG GES tool, Worker
	Worker - all relevant routes
	In case the identified operational conditions and risk management measures are applied:, The use is assessed to be safe.
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Material transfers Non-dedicated facility Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 5\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	



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Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.1
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.71 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.27
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Material transfers Dedicated facility Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 5 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.1
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.86 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.14
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Material transfers Drum/Batch transfers Transfer from/pouring from containers Dedicated facility Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 5 %

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Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.1
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.86 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.14
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Roller, spreader, flow application Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 5 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.1
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	27.43 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.54
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Dipping, immersion and pouring Use domain: industrial
<b>Operational conditions</b>	

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Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 5\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.1
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.71 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.27
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC14: Tableting, compression, extrusion, pelletisation, granulation Production or preparation of articles by tableting, compression, extrusion or pelletisation Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 5\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.1
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	3.43 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.07
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Laboratory activities

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	Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 5 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	7.51 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.02
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.34 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

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## 6. Short title of exposure scenario

Use in Cleaning Agents, (use in industrial settings)

IS; IS; ERC4; PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
<b>Operational conditions</b>	
Annual amount used in the EU	5,200,000 kg
Daily amount per site	5,000 kg
Minimum emission days per year Continuous	20
Emission factor air	30 %
Emission factor water	0.01 %
Emission factor soil	0 %
Releases based on ESVOC/CEFIC information	

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Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Total effec. of removal from wastewater after RMMs and STP(%)	87.3 %
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Waste-Related Measures</b>	
	Dispose of waste cans and containers according to local regulations
<b>Exposure estimate and reference to its source</b>	
Risk Characterization Ratio (RCR)	0.0017
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	3,105.264 kg/d
Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Automated process with (semi) closed systems. Use in contained systems Application of cleaning products in closed systems Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.1
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1.37 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.03
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Application of cleaning products in closed systems Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
PROC2	
Assessment method	ESIG GES tool, Worker
	Worker - all relevant routes
	The use is assessed to be safe.
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Automated process with (semi) closed systems. Use in contained systems Drum/Batch transfers Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	93.85 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.25
Assessment method	ESIG GES tool, Worker

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	Worker - dermal, long-term - systemic
Exposure estimate	0.34 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Use in contained batch processes Treatment by heating Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Operation is carried out at elevated temperature (> 20°C above ambient temperature).
<b>Risk Management Measures</b>	
Provide extract ventilation to points where emissions occur (LEV).	Effectiveness: 90 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.1
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.86 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.14
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC7: Industrial spraying Cleaning with high pressure washers Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 25 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient

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	temperature.
<b>Risk Management Measures</b>	
Provide a good standard of controlled ventilation (10 to 15 air changes per hour)	Effectiveness: 70 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	168.94 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.46
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	8.57 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.17
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Bulk transfer Non-dedicated facility Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.71 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.27
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Filling / preparation of equipment from drums or containers. Dedicated facility Use domain: industrial



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<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.86 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.14
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Cleaning with low-pressure washers Surfaces no spraying (manual) Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Wear suitable gloves tested to EN ISO 374-1.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	5.49 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.11
<b>Guidance to Downstream Users</b>	

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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Cleaning Surfaces no spraying (manual) Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Wear suitable gloves tested to EN ISO 374-1.	
<b>Exposure estimate and reference to its source</b>	
PROC10	
Assessment method	ESIG GES tool, Worker
	Worker - all relevant routes
	In case the identified operational conditions and risk management measures are applied:, The use is assessed to be safe.
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Degreasing small objects in cleaning station Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker

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	Worker - dermal, long-term - systemic
Exposure estimate	13.71 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.27
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

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## 7. Short title of exposure scenario

Use in Coatings, (use in professional settings)

PW; PW; ERC8a, ERC8d; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19

## Control of exposure and risk management measures

Control of exposure and risk management measures		
Contributing exposure scenario		
Use descriptors covered		ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
Operational conditions		
Annual amount used in the EU	2,600,000 kg	
Daily amount per site	433 kg	
Minimum emission days per year	300	
Continuous		
Emission factor air	80 %	
Emission factor water	10 %	
Emission factor soil	0.1 %	
	Releases based on A&B-tables taken from TGD 2003	
Dilution factor river	10	
Dilution factor coast	100	
Risk Management Measures		
	Prevent discharge of undissolved substance to or recover from wastewater	
Type of STP		Municipal STP
Total effic. of removal from wastewater after RMMs and STP(%)	87.3 %	
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d	
Waste-Related Measures		
	Dispose of waste cans and containers according to local regulations	
Exposure estimate and reference to its source		
Risk Characterization Ratio (RCR)	0.029	
	Risk from environmental exposure is driven by freshwater.	

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	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	15,141 kg/d
Risk from environmental exposure is driven by freshwater., Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
<b>Operational conditions</b>	
Annual amount used in the EU	2,600,000 kg
Daily amount per site	433 kg
Minimum emission days per year Continuous	300
Emission factor air	80 %
Emission factor water	10 %
Emission factor soil	0.1 %
	Releases based on A&B-tables taken from TGD 2003
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
	Prevent discharge of undissolved substance to or recover from wastewater
Type of STP	Municipal STP
Total effc. of removal from wastewater after RMMs and STP(%)	87.3 %
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Waste-Related Measures</b>	
	Dispose of waste cans and containers according to local regulations
<b>Exposure estimate and reference to its source</b>	
Risk Characterization Ratio (RCR)	0.029
	Risk from environmental exposure is driven by freshwater., Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	15,141 kg/d
Risk from environmental exposure is driven by freshwater., Risk from environmental exposure is driven by marine water.	

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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.04 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.0001
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.34 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Filling / preparation of equipment from drums or containers. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
PROC2	
Assessment method	ESIG GES tool, Worker
	Worker - all relevant routes
The use is assessed to be safe.	

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### **Guidance to Downstream Users**

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### **Contributing exposure scenario**

<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions General exposures Use in contained systems (closed systems) Filling / preparation of equipment from drums or containers. Use domain: professional
--------------------------------	--

### **Operational conditions**

Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.

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

Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	75.08 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.2
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1.37 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.03

### **Guidance to Downstream Users**

<http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3>

### **Contributing exposure scenario**

<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Preparation of material for application Use domain: professional
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### **Operational conditions**

Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient

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	temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	93.85 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.25
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.34 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Film formation - air drying Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.86 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.14
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Film formation - air drying Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity

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Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
PROC4	
Assessment method	ESIG GES tool, Worker
	Worker - all relevant routes
	The use is assessed to be safe.
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes Preparation of material for application Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Alternatively:, Ensure operation is undertaken outdoors.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	262.79 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.71
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.71 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.27
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes Preparation of material for application Use domain: professional



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<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Ensure operation is undertaken outdoors.	
<b>Exposure estimate and reference to its source</b>	
PROC5	
Assessment method	ESIG GES tool, Worker
	Worker - all relevant routes
	In case the identified operational conditions and risk management measures are applied:, The use is assessed to be safe.
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Material transfers Drum/Batch transfers Non-dedicated facility Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	262.79 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.71
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic

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Exposure estimate	13.71 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.27
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Material transfers Drum/Batch transfers Dedicated facility Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.86 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.14
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Roller, spreader, flow application Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air	Effectiveness: 30 %

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changes per hour)	
Wear suitable gloves tested to EN ISO 374-1.	Effectiveness: 80 %
In case no general ventilation is used:, Ensure operation is undertaken outdoors.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	262.79 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.71
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	5.49 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.11
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Roller, spreader, flow application Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Ensure operation is undertaken outdoors.	
Wear suitable gloves tested to EN ISO 374-1.	
<b>Exposure estimate and reference to its source</b>	
PROC10	
Assessment method	ESIG GES tool, Worker
	Worker - all relevant routes
	In case the identified operational conditions and risk management measures are applied:, The use is assessed to be safe.
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Spraying (manual)

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	Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Carry out in a vented booth or extracted enclosure.	Effectiveness: 80 %
Wear a respirator conforming to EN140 with Type A filter or better	Effectiveness: 90 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.1
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2.14 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.04
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Spraying (manual) Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Ensure operation is undertaken outdoors.	Effectiveness: 30 %
Wear a respirator conforming to EN140 with Type A filter or better	Effectiveness: 90 %
Wear suitable gloves tested to EN ISO 374-1.	Effectiveness: 80 %

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<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	131.4 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.36
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	21.43 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.42
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Dipping, immersion and pouring Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.

<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Alternatively:, Ensure operation is undertaken outdoors.	

<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	262.79 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.71
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.71 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.27
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Dipping, immersion and pouring Use domain: professional

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<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Ensure operation is undertaken outdoors.	
<b>Exposure estimate and reference to its source</b>	
PROC13	
Assessment method	ESIG GES tool, Worker
	Worker - all relevant routes
	In case the identified operational conditions and risk management measures are applied:, The use is assessed to be safe.
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Laboratory activities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.1
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.34 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC19: Manual activities involving hand contact Hand

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	application - fingerpaints, pastels, adhesives Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
In case no general ventilation is used:, Ensure operation is undertaken outdoors.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	262.79 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.71
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	14.14 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.28
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC19: Manual activities involving hand contact Hand application - fingerpaints, pastels, adhesives Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	

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Ensure operation is undertaken outdoors.	
Wear chemically resistant gloves in combination with 'basic' employee training.	
<b>Exposure estimate and reference to its source</b>	
PROC19	
Assessment method	ESIG GES tool, Worker
	Worker - all relevant routes
	In case the identified operational conditions and risk management measures are applied:, The use is assessed to be safe.
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

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## 8. Short title of exposure scenario

Use in Coatings, (use in professional settings)

PW; PW; ERC8a, ERC8b; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
<b>Operational conditions</b>	
Annual amount used in the EU	2,600,000 kg
Daily amount per site	433 kg
Minimum emission days per year Continuous	300
Emission factor air	80 %
Emission factor water	10 %
Emission factor soil	0.1 %
	Releases based on A&B-tables taken from TGD 2003
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
	Prevent discharge of undissolved substance to or recover from wastewater



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Type of STP	Municipal STP
Total effic. of removal from wastewater after RMMs and STP(%)	87.3 %
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Waste-Related Measures</b>	
	Dispose of waste cans and containers according to local regulations
<b>Exposure estimate and reference to its source</b>	
Risk Characterization Ratio (RCR)	0.029
	Risk from environmental exposure is driven by freshwater., Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	15,141 kg/d
Risk from environmental exposure is driven by freshwater., Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
<b>Operational conditions</b>	
Annual amount used in the EU	2,600,000 kg
Daily amount per site	433 kg
Minimum emission days per year Continuous	300
Emission factor air	80 %
Emission factor water	10 %
Emission factor soil	0.1 %
	Releases based on A&B-tables taken from TGD 2003
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
	Prevent discharge of undissolved substance to or recover from wastewater
Type of STP	Municipal STP
Total effic. of removal from wastewater after RMMs and STP(%)	87.3 %
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Waste-Related Measures</b>	
	Dispose of waste cans and containers according to local regulations
<b>Exposure estimate and reference to its source</b>	

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Risk Characterization Ratio (RCR)	0.029
	Risk from environmental exposure is driven by freshwater., Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	15,141 kg/d
Risk from environmental exposure is driven by freshwater., Risk from environmental exposure is driven by marine water.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. General exposures (closed systems) Use domain: professional
Operational conditions	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 5\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
Exposure estimate and reference to its source	
PROC1	
Assessment method	ESIG GES tool, Worker
	Worker - all relevant routes
	In case the identified operational conditions and risk management measures are applied:, The use is assessed to be safe.
Guidance to Downstream Users	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Filling / preparation of equipment from drums or containers. Use domain: professional
Operational conditions	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 5\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week

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	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
PROC2	
Assessment method	ESIG GES tool, Worker
	Worker - all relevant routes
	In case the identified operational conditions and risk management measures are applied:, The use is assessed to be safe.
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions General exposures Use in contained systems (closed systems) Filling / preparation of equipment from drums or containers. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 5 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	15.02 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.04
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1.37 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.03
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

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

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	Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 5 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	18.77 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.05
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.34 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Film formation - air drying Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 5 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.1
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.86 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.14
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Film formation - air drying Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 5\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
PROC4	
Assessment method	ESIG GES tool, Worker
	Worker - all relevant routes
	In case the identified operational conditions and risk management measures are applied:, The use is assessed to be safe.
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes Preparation of material for application Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 5\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	75.08 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.2
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.71 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.27
<b>Guidance to Downstream Users</b>	

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<http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3>

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes Preparation of material for application Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 5 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Ensure operation is undertaken outdoors.	
<b>Exposure estimate and reference to its source</b>	
PROC5	
Assessment method	ESIG GES tool, Worker
	Worker - all relevant routes
	In case the identified operational conditions and risk management measures are applied:, The use is assessed to be safe.
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Material transfers Drum/Batch transfers Non-dedicated facility Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 5 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	75.08 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.2

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Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.71 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.27
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Material transfers Drum/Batch transfers Dedicated facility Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 5 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	37.54 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.1
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.86 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.14
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Roller, spreader, flow application Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 5 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	

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Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	75.08 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.2
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	27.43 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.54
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Roller, spreader, flow application Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 5 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
PROC10	
Assessment method	ESIG GES tool, Worker
	Worker - all relevant routes
	In case the identified operational conditions and risk management measures are applied:, The use is assessed to be safe.
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Spraying (manual) Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 5 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.



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<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
In case no general ventilation is used:, Ensure operation is undertaken outdoors.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	262.79 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.71
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	10.71 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.21
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Spraying (manual) Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 5 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Ensure operation is undertaken outdoors.	
Wear chemically resistant gloves in combination with 'basic' employee training.	
<b>Exposure estimate and reference to its source</b>	
PROC11	
Assessment method	ESIG GES tool, Worker
	Worker - all relevant routes
	In case the identified operational conditions and risk management measures are applied:, The use is assessed to be safe.
<b>Guidance to Downstream Users</b>	

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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Dipping, immersion and pouring Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 5 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	75.08 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.2
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.71 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.27
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Dipping, immersion and pouring Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 5 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
PROC13	
Assessment method	ESIG GES tool, Worker
	Worker - all relevant routes
	In case the identified operational conditions and risk management measures are applied:, The use is assessed

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	to be safe.
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Laboratory activities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 5\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	7.51 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.02
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.34 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC19: Manual activities involving hand contact Hand application - fingerpaints, pastels, adhesives Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 5\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Wear suitable gloves tested to EN ISO 374-1.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic

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Exposure estimate	75.08 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.2
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	28.29 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.56
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC19: Manual activities involving hand contact Hand application - fingerpaints, pastels, adhesives Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 5 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Wear suitable gloves tested to EN ISO 374-1.	
<b>Exposure estimate and reference to its source</b>	
PROC19	
Assessment method	ESIG GES tool, Worker
	Worker - all relevant routes
	In case the identified operational conditions and risk management measures are applied:, The use is assessed to be safe.
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

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## 9. Short title of exposure scenario

Use in Cleaning Agents, (use in professional settings)

PW; PW; ERC8a, ERC8d; PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

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<b>Operational conditions</b>	
Annual amount used in the EU	5,200,000 kg
Daily amount per site	0.71 kg
Minimum emission days per year Continuous	365
Emission factor air	2 %
Emission factor water	0.001 %
Emission factor soil	0 %
	Releases based on ESVOC/CEFIC information
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Treat air emissions to provide a typical removal efficiency of (%)	70 %
Type of STP	Municipal STP
Total effc. of removal from wastewater after RMMs and STP(%)	87.3 %
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Waste-Related Measures</b>	
	Dispose of waste cans and containers according to local regulations
<b>Exposure estimate and reference to its source</b>	
Risk Characterization Ratio (RCR)	0.00138
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	550 kg/d
Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
<b>Operational conditions</b>	
Annual amount used in the EU	5,200,000 kg
Daily amount per site	0.71 kg
Minimum emission days per year Continuous	365
Emission factor air	2 %
Emission factor water	0.001 %

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Emission factor soil	0 %
	Releases based on ESVOC/CEFIC information
Dilution factor river	10
Dilution factor coast	100
Other Factors: Environment	Outdoor use.
<b>Risk Management Measures</b>	
Treat air emissions to provide a typical removal efficiency of (%)	70 %
Type of STP	Municipal STP
Total effec. of removal from wastewater after RMMs and STP(%)	87.3 %
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Waste-Related Measures</b>	
	Dispose of waste cans and containers according to local regulations
<b>Exposure estimate and reference to its source</b>	
Risk Characterization Ratio (RCR)	0.00138
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	550 kg/d
Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Automated process with (semi) closed systems. Use in contained systems Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	75.08 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.2
Assessment method	ESIG GES tool, Worker

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	Worker - dermal, long-term - systemic
Exposure estimate	1.37 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.03
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use in contained systems Drum/Batch transfers Automated process with (semi) closed systems. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	93.85 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.25
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.34 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Semi Automated process Application of cleaning products in closed systems Cleaning of medical devices Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week

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	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.86 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.14
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Application of cleaning products in closed systems Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
PROC4	
Assessment method	ESIG GES tool, Worker
	Worker - all relevant routes
	The use is assessed to be safe.
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Cleaning of medical devices Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week



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	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
PROC4	
Assessment method	ESIG GES tool, Worker
	Worker - all relevant routes
	The use is assessed to be safe.
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Filling / preparation of equipment from drums or containers. Non-dedicated facility Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 100 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	240 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Ensure operation is undertaken outdoors.	Effectiveness: 30 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	157.68 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.43
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.71 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.27
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Filling / preparation of equipment from drums or containers. Dedicated facility Use domain: professional
<b>Operational conditions</b>	

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Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	187.71 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.86 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.14
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Cleaning with low-pressure washers Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of controlled ventilation (10 to 15 air changes per hour)	Effectiveness: 70 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	112.63 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.31
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	27.43 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.54
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Cleaning Surfaces (manual) Spraying Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of controlled ventilation (10 to 15 air changes per hour)	Effectiveness: 30 %
Wear suitable gloves tested to EN ISO 374-1.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	262.79 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.71
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	5.49 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.11
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Ad hoc manual application via trigger sprays, dipping, etc. Rolling/Brushing Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	

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Provide extract ventilation to points where emissions occur (LEV).	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	75.08 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.2
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	27.43 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.54
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Cleaning with high pressure washers Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 5 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of controlled ventilation (10 to 15 air changes per hour)	Effectiveness: 70 %
Wear suitable gloves tested to EN ISO 374-1.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	112.63 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.31
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	21.43 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.42
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Cleaning with high

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	pressure washers Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 5\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Ensure operation is undertaken outdoors.	Effectiveness: 30 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	262.79 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.71
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	10.71 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.21
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Cleaning Surfaces (manual) Dipping, immersion and pouring Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of controlled ventilation (10 to 15 air changes per hour)	Effectiveness: 70 %

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<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	112.63 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.31
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.71 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.27
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

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## 10. Short title of exposure scenario

Use in Agrochemicals, (use in professional settings)

PW; PW; ERC8d; PROC2, PROC4, PROC8a, PROC8b, PROC11, PROC13

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
<b>Operational conditions</b>	
Annual amount used in the EU	650,000 kg
Minimum emission days per year intermittent	2
Emission factor air	0.05 %
Emission factor water	10 %
Emission factor soil	85 %
	Releases based on A&B-tables taken from TGD 2003
Dilution factor river	10
Dilution factor coast	100
<b>Waste-Related Measures</b>	
	Dispose of waste cans and containers according to local regulations
<b>Exposure estimate and reference to its source</b>	
Risk Characterization Ratio (RCR)	0.0176
	Risk from environmental exposure is driven by marine water.

## Contributing exposure scenario

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<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Storage Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 25\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	45.05 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.12
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1.37 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.03
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Mixing operations (open systems) Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 25\%$
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	112.63 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.31
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic

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Exposure estimate	6.86 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.14
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Equipment maintenance Cleaning Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 25 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	225.25 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.61
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.71 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.27
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Disposal of wastes (Disposal/transfer) Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 25 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	



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Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	225.25 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.61
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.71 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.27
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Transfer from/pouring from containers Dedicated facility Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 25 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	112.63 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.31
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.86 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.14
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Spraying/fogging by manual application Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 25 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Outdoor
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Wear a respirator conforming to EN140 with Type A filter or better	Effectiveness: 90 %
Wear suitable gloves tested to EN ISO 374-1.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	112.63 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.31
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	21.43 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.42
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Spraying/fogging by machine application Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 25 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Risk Management Measures</b>	
Carry out in a vented booth or extracted enclosure.	Effectiveness: 80 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	225.25 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.61
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2.14 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.04
<b>Guidance to Downstream Users</b>	
<a href="http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3">http://www.esig.org/en/regulatory-information/reach/ges-library/ges-library-3</a>	

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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Ad hoc manual application via trigger sprays, dipping, etc. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 25 %
Physical state	Liquid, moderate fugacity
Duration and Frequency of activity	480 min 5 days per week
	Assumes use at not more than 20°C above ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	ESIG GES tool, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	225.25 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.61
Assessment method	ESIG GES tool, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.71 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.27
<b>Guidance to Downstream Users</b>	
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## 11. Short title of exposure scenario

Use in Coatings, (consumer use)

C; C; ERC8a, ERC8d; PC9

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
<b>Operational conditions</b>	
Annual amount used in the EU	2,600,000 kg
Minimum emission days per year Continuous	300
Emission factor air	80 %
Emission factor water	15 %
Emission factor soil	1 %

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	Releases based on A&B-tables taken from TGD 2003
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Total effec. of removal from wastewater after RMMs and STP(%)	87 %
<b>Waste-Related Measures</b>	
	Dispose of waste cans and containers according to local regulations
<b>Exposure estimate and reference to its source</b>	
Risk Characterization Ratio (RCR)	0.00139
	Risk from environmental exposure is driven by marine water.

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
<b>Operational conditions</b>	
Annual amount used in the EU	2,600,000 kg
Minimum emission days per year Continuous	300
Emission factor air	80 %
Emission factor water	15 %
Emission factor soil	1 %
	Releases based on A&B-tables taken from TGD 2003
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Total effec. of removal from wastewater after RMMs and STP(%)	87.3 %
<b>Waste-Related Measures</b>	
	Dispose of waste cans and containers according to local regulations
<b>Exposure estimate and reference to its source</b>	
Risk Characterization Ratio (RCR)	0.00139
	Risk from environmental exposure is driven by marine water.

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC9a: Coatings and paints, thinners, paint removers, General coatings, Waterborne paint

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<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: $\geq 0\%$ - $\leq 5\%$
Physical state	Liquid, high fugacity
Duration and Frequency of activity	Application duration: 180 min 1 uses per day
Indoor/Outdoor	Indoor
Room size	20 m <sup>3</sup>
	Assumes activities are at ambient temperature., Use in rooms with open windows.
	Amount per use 1.88 kg
<b>Exposure estimate and reference to its source</b>	
Assessment method	ConsExpo v4.1
	Consumer - inhalation, long-term - systemic
Exposure estimate	5.73 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.39
Assessment method	ConsExpo v4.1
	Consumer - dermal, long-term - systemic
Exposure estimate	4.5 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.25
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp">http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp</a>	

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## 12. Short title of exposure scenario

Use in Coatings, (consumer use)

C; C; ERC8a, ERC8d; PC9

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
<b>Operational conditions</b>	
Annual amount used in the EU	63,050,000 kg
Minimum emission days per year Continuous	300
Emission factor air	80 %
Emission factor water	15 %
Emission factor soil	1 %
Releases based on A&B-tables taken from TGD 2003	

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Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
	Prevent discharge of undissolved substance to or recover from wastewater
Total effec. of removal from wastewater after RMMs and STP(%)	87 %
<b>Waste-Related Measures</b>	
	Dispose of waste cans and containers according to local regulations
<b>Exposure estimate and reference to its source</b>	
Risk Characterization Ratio (RCR)	0.001433
	Risk from environmental exposure is driven by marine water.

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
<b>Operational conditions</b>	
Annual amount used in the EU	63,050,000 kg
Minimum emission days per year Continuous	300
Emission factor air	80 %
Emission factor water	15 %
Emission factor soil	1 %
	Releases based on A&B-tables taken from TGD 2003
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
	Prevent discharge of undissolved substance to or recover from wastewater
Total effec. of removal from wastewater after RMMs and STP(%)	87 %
<b>Waste-Related Measures</b>	
	Dispose of waste cans and containers according to local regulations
<b>Exposure estimate and reference to its source</b>	
Risk Characterization Ratio (RCR)	0.001433
	Risk from environmental exposure is driven by marine water.

<b>Contributing exposure scenario</b>
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<b>Use descriptors covered</b>	PC9a: Coatings and paints, thinners, paint removers, Solvent rich paint
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 10 %
Physical state	Liquid, high fugacity
Duration and Frequency of activity	Application duration: 66 min 1 uses per day
Indoor/Outdoor	Indoor
Room size	20 m <sup>3</sup>
	Assumes activities are at ambient temperature., Use in rooms with open windows.
	Amount per use 0.5 kg
<b>Exposure estimate and reference to its source</b>	
Assessment method	ConsExpo v4.1
	Consumer - inhalation, long-term - systemic
Exposure estimate	7.46 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.51
Assessment method	ConsExpo v4.1
	Consumer - dermal, long-term - systemic
Exposure estimate	3.3 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.18
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp">http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp</a>	

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### 13. Short title of exposure scenario

Use in Cleaning Agents, (consumer use)

C; C; ERC8a, ERC8d; PC35

### Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
<b>Operational conditions</b>	
Annual amount used in the EU	260,000 kg
Daily amount per site	0.03 kg
Minimum emission days per year Continuous	365
Emission factor air	95 %
Emission factor water	2.5 %

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Emission factor soil	2.5 %
	Releases based on ESVOC/CEFIC information
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Total effec. of removal from wastewater after RMMs and STP(%)	87 %
<b>Exposure estimate and reference to its source</b>	
Risk Characterization Ratio (RCR)	0.00138
	Risk from environmental exposure is driven by marine water.

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
<b>Operational conditions</b>	
Annual amount used in the EU	260,000 kg
Daily amount per site	0.03 kg
Minimum emission days per year Continuous	365
Emission factor air	95 %
Emission factor water	2.5 %
Emission factor soil	2.5 %
	Releases based on ESVOC/CEFIC information
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Total effec. of removal from wastewater after RMMs and STP(%)	87 %

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC35: Washing and Cleaning Products (including solvent based products)., PC8_3, PC35_3: Subcategory: Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners), Surface cleaning
<b>Operational conditions</b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 10 %



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Physical state	Liquid, high fugacity
Duration and Frequency of activity	Application duration: 60 min 3 uses per day
Indoor/Outdoor	Indoor
Room size	15 m <sup>3</sup>
	Assumes activities are at ambient temperature., Covers use under typical household ventilation.
	Amount per use 0.016 kg
<b>Exposure estimate and reference to its source</b>	
Assessment method	ConsExpo v4.1
	Consumer - inhalation, long-term - systemic
Exposure estimate	2.57 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.18
Assessment method	ConsExpo v4.1
	Consumer - dermal, long-term - systemic
Exposure estimate	0.9 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.05
Assessment method	ConsExpo v4.1
	Consumer - oral, long-term - systemic
Exposure estimate	0.004 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.001
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp">http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp</a>	

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#### 14. Short title of exposure scenario

Use in Personal care products, (consumer use)

C; C; ERC8a

#### Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
<b>Operational conditions</b>	
Annual amount used in the EU	2,600,000 kg
Daily amount per site	0.04 kg
Minimum emission days per year Continuous	365
Emission factor air	95 %
Emission factor water	2.5 %
Emission factor soil	2.5 %

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	Releases based on ESVOC/CEFIC information
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Total effc. of removal from wastewater after RMMs and STP(%)	87 %
<b>Exposure estimate and reference to its source</b>	
Risk Characterization Ratio (RCR)	0.00138
	Risk from environmental exposure is driven by marine water.

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## 15. Short title of exposure scenario

Use in De-icing and Anti-icing agents, (consumer use)

C; C; ERC8a, ERC8d; PC4

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
<b>Operational conditions</b>	
Annual amount per site	260,000 kg
Minimum emission days per year Continuous	365
Emission factor air	90 %
Emission factor water	5 %
Emission factor soil	5 %
	Releases based on ESVOC/CEFIC information
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Total effc. of removal from wastewater after RMMs and STP(%)	87 %
<b>Exposure estimate and reference to its source</b>	
Risk Characterization Ratio (RCR)	0.001385
	Risk from environmental exposure is driven by marine water.

## Contributing exposure scenario

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Use descriptors covered	ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)	
Operational conditions		
Annual amount per site	260,000 kg	
Minimum emission days per year Continuous	365	
Emission factor air	90 %	
Emission factor water	5 %	
Emission factor soil	5 %	
	Releases based on ESVOC/CEFIC information	
Dilution factor river	10	
Dilution factor coast	100	
Other Factors: Environment	Outdoor use.	
Risk Management Measures		
Total effc. of removal from wastewater after RMMs and STP(%)	87 %	
Exposure estimate and reference to its source		
Risk Characterization Ratio (RCR)	0.001385	
	Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC4: Anti-Freeze and De-icing products.
<b><i>Operational conditions</i></b>	
Concentration of the substance	1-methoxy-2-propanol Content: >= 0 % - <= 30 %
Physical state	Liquid, high fugacity
Duration and Frequency of activity	Application duration: 30 min 1 uses per day
Indoor/Outdoor	Outdoor
	Assumes activities are at ambient temperature.
	Amount per use 0.5 kg
<b><i>Exposure estimate and reference to its source</i></b>	
Assessment method	ConsExpo v4.1
	Consumer - inhalation, long-term - systemic
Exposure estimate	5.2 mg/m³
Risk Characterization Ratio (RCR)	0.36
Assessment method	ConsExpo v4.1
	Consumer - dermal, long-term - systemic
Exposure estimate	0.9 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.05

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Assessment method	ConsExpo v4.1
	Consumer - oral, long-term - systemic
Exposure estimate	0.1 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.03
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp">http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp</a>	

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