



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Revision Date 24.03.2016

Version 10.0

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

### 1.1 Product identifier

Catalogue No.	801452
Product name	Anisole for synthesis
REACH Registration Number	01-2119968918-13-XXXX
CAS-No.	100-66-3

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

Identified uses	Chemical for synthesis
	In compliance with the conditions described in the annex to this safety data sheet.

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

Company	Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0
Responsible Department	EQ-RS * e-mail: prodsafe@merckgroup.com

1.4 Emergency telephone number	Please contact the regional company representation in your country.
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## SECTION 2. Hazards identification

### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

Flammable liquid, Category 3, H226

For the full text of the H-Statements mentioned in this Section, see Section 16.

**Classification (67/548/EEC or 1999/45/EC)**

R10

For the full text of the R-phrases mentioned in this Section, see Section 16.

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## 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

#### *Hazard pictograms*



#### *Signal word*

Warning

#### *Hazard statements*

H226 Flammable liquid and vapour.

#### *Precautionary statements*

Prevention

P210 Keep away from heat.

P262 Do not get in eyes, on skin, or on clothing.

#### Reduced labelling (≤125 ml)

#### *Hazard pictograms*



#### *Signal word*

Warning

CAS-No. 100-66-3

## 2.3 Other hazards

None known.

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## SECTION 3. Composition/information on ingredients

### 3.1 Substance

Formula	C <sub>6</sub> H <sub>5</sub> OCH <sub>3</sub>	C <sub>7</sub> H <sub>8</sub> O (Hill)
EC-No.	202-876-1	
Molar mass	108,13 g/mol	

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Remarks	No disclosure requirement according to Regulation (EC) No. 1907/2006
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### 3.2 Mixture

Not applicable

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## SECTION 4. First aid measures

### 4.1 Description of first aid measures

After inhalation: fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower.

After eye contact: rinse out with plenty of water.

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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

irritant effects, Shortness of breath, agitation, spasms, Nausea, Vomiting, Headache, muscle twitching, narcosis

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

No information available.

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## SECTION 5. Firefighting measures

### 5.1 Extinguishing media

*Suitable extinguishing media*

Foam, Carbon dioxide (CO<sub>2</sub>), Dry powder

*Unsuitable extinguishing media*

For this substance/mixture no limitations of extinguishing agents are given.

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

Combustible.

Vapours are heavier than air and may spread along floors.

Forms explosive mixtures with air at elevated temperatures.

Development of hazardous combustion gases or vapours possible in the event of fire.

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### 5.3 Advice for firefighters

*Special protective equipment for firefighters*

In the event of fire, wear self-contained breathing apparatus.

*Further information*

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## SECTION 6. Accidental release measures

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

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

### 6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

### 6.4 Reference to other sections

Indications about waste treatment see section 13.

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## SECTION 7. Handling and storage

### 7.1 Precautions for safe handling

*Advice on safe handling*

Observe label precautions.

*Advice on protection against fire and explosion*

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

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*Hygiene measures*

Change contaminated clothing. Wash hands after working with substance.

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

*Storage conditions*

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

Recommended storage temperature see product label.

**7.3 Specific end use(s)**

See exposure scenario in the Annex to this MSDS.

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**SECTION 8. Exposure controls/personal protection**

**8.1 Control parameters**

**Derived No Effect Level (DNEL)**

Worker DNEL, longterm	Systemic effects	inhalation	20 mg/m <sup>3</sup>
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**Predicted No Effect Concentration (PNEC)**

PNEC Fresh water	0,027 mg/l
PNEC Marine water	0,0027 mg/l
PNEC Aquatic intermittent release	0,27 mg/l
PNEC Fresh water sediment	0,745 mg/kg
PNEC Marine sediment	0,0745 mg/kg
PNEC Soil	0,133 mg/kg
PNEC Sewage treatment plant	30 mg/l

**8.2 Exposure controls**

**Engineering measures**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

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**Individual protection measures**

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

*Eye/face protection*

Safety glasses

*Hand protection*

full contact:

Glove material:	Viton (R)
Glove thickness:	0,70 mm
Break through time:	> 480 min

splash contact:

Glove material:	Nitrile rubber
Glove thickness:	0,40 mm
Break through time:	> 30 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 890 Vitoject® (full contact), KCL 730 Camatril® -Velours (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

*Other protective equipment*

Flame retardant antistatic protective clothing.

*Respiratory protection*

required when vapours/aerosols are generated.

Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

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**Environmental exposure controls**

Do not let product enter drains.

Risk of explosion.

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**SECTION 9. Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

Form	liquid
Colour	colourless
Odour	aromatic
Odour Threshold	No information available.
pH	at 20 °C Not applicable
Melting point	-37 °C
Boiling point/boiling range	154 °C at 1.013 hPa
Flash point	45,5 °C at 993 hPa  Method: c.c.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	0,34 %(V)
Upper explosion limit	6,3 %(V)
Vapour pressure	3,2 hPa at 20 °C

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Relative vapour density	3,7
Density	0,994 g/cm <sup>3</sup> at 20 °C
Relative density	No information available.
Water solubility	1,71 g/l at 20 °C Method: OECD Test Guideline 105
Partition coefficient: n-octanol/water	log Pow: 2,62 OECD Test Guideline 117 Bioaccumulation is not expected.
Auto-ignition temperature	No information available.
Decomposition temperature	> 490 °C
Viscosity, dynamic	0,99 mPa.s at 25 °C
Explosive properties	Not classified as explosive.
Oxidizing properties	none

## 9.2 Other data

Ignition temperature	475 °C
Bulk density	Not applicable

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## SECTION 10. Stability and reactivity

### 10.1 Reactivity

Formation of peroxides possible.  
Vapour/air-mixtures are explosive at intense warming.

### 10.2 Chemical stability



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Sensitive to air.

### 10.3 Possibility of hazardous reactions

Violent reactions possible with:

Strong oxidizing agents, Strong acids, alkalines, formaldehyde

### 10.4 Conditions to avoid

Heating.

### 10.5 Incompatible materials

no information available

### 10.6 Hazardous decomposition products

Peroxides

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## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects

#### *Acute oral toxicity*

LD50 Rat: 3.700 mg/kg

(RTECS)

#### *Acute inhalation toxicity*

LC50 Rat: > 6,51 mg/l; 4 h ; vapour

OECD Test Guideline 403

Symptoms: Possible damages:, slight mucosal irritations

#### *Acute dermal toxicity*

This information is not available.

#### *Skin irritation*

Rabbit

Result: slight irritation

OECD Test Guideline 404

#### *Eye irritation*

Rabbit

Result: No eye irritation

OECD Test Guideline 405

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*Sensitisation*

Sensitisation test (Magnusson and Kligman):

Result: negative

(External MSDS)

Maximisation Test (GPMT) Guinea pig

Result: negative

Method: OECD Test Guideline 406

*Germ cell mutagenicity*

*Genotoxicity in vitro*

Ames test

Escherichia coli/Salmonella typhimurium

Result: negative

Method: OECD Test Guideline 471

In vitro mammalian cell gene mutation test

Mouse lymphoma test

Result: negative

Method: OECD Test Guideline 476

Mutagenicity (mammal cell test): chromosome aberration.

Chinese hamster lung cells

Result: negative

Method: OECD Test Guideline 473

*Carcinogenicity*

This information is not available.

*Reproductive toxicity*

This information is not available.

*Teratogenicity*

This information is not available.

*Specific target organ toxicity - single exposure*

This information is not available.

*Specific target organ toxicity - repeated exposure*

This information is not available.

*Aspiration hazard*

This information is not available.

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### 11.2 Further information

Systemic effects:

After uptake of large quantities:

Nausea, Vomiting, agitation, spasms, Headache, muscle twitching, narcosis, cardiovascular disorders

Possible damages:

Damage to:

Liver, Kidney, Central nervous system

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

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## SECTION 12. Ecological information

### 12.1 Toxicity

*Toxicity to fish*

LC50 *Leuciscus idus* (Golden orfe): > 1.000 mg/l; 96 h

(External MSDS)

*Toxicity to daphnia and other aquatic invertebrates*

static test EC50 *Daphnia magna* (Water flea): 27 mg/l; 48 h

Analytical monitoring: yes

OECD Test Guideline 202

*Toxicity to algae*

static test ErC50 *Pseudokirchneriella subcapitata* (algae): 47 mg/l; 72 h

Analytical monitoring: yes

OECD Test Guideline 201

*Toxicity to bacteria*

static test NOEC activated sludge: 300 mg/l; 3 h

OECD Test Guideline 209

### 12.2 Persistence and degradability

*Biodegradability*

ca. 68 %

OECD Test Guideline 301D

Readily biodegradable

*Theoretical oxygen demand (ThOD)*

2.520 mg/g

(Lit.)

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### 12.3 Bioaccumulative potential

*Partition coefficient: n-octanol/water*

log Pow: 2,62

OECD Test Guideline 117

Bioaccumulation is not expected.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

### 12.6 Other adverse effects

*Henry constant*

446 Pa·m<sup>3</sup>/mol

(Lit.) Distribution preferentially in air.

Discharge into the environment must be avoided.

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## SECTION 13. Disposal considerations

*Waste treatment methods*

See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

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## SECTION 14. Transport information

### Land transport (ADR/RID)

14.1 UN number UN 2222

14.2 Proper shipping name ANISOLE

14.3 Class 3

14.4 Packing group III

14.5 Environmentally hazardous --

14.6 Special precautions for user yes

Tunnel restriction code D/E

### Inland waterway transport (ADN)

Not relevant

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**Air transport (IATA)**

14.1 UN number UN 2222  
14.2 Proper shipping name ANISOLE  
14.3 Class 3  
14.4 Packing group III  
14.5 Environmentally hazardous --  
14.6 Special precautions for user no

**Sea transport (IMDG)**

14.1 UN number UN 2222  
14.2 Proper shipping name ANISOLE  
14.3 Class 3  
14.4 Packing group III  
14.5 Environmentally hazardous --  
14.6 Special precautions for user yes

EmS F-E S-D

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
Not relevant

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**SECTION 15. Regulatory information**

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

*EU regulations*

Major Accident Hazard SEVESO III  
Legislation FLAMMABLE LIQUIDS  
P5c  
Quantity 1: 5.000 t  
Quantity 2: 50.000 t

Occupational restrictions Take note of Dir 94/33/EC on the protection of young people at work.

Regulation (EC) No 1005/2009 on substances that not regulated  
deplete the ozone layer

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Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC not regulated

Substances of very high concern (SVHC) This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of  $\geq 0.1\%$  (w/w).

*National legislation*

Storage class 3

## 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has been carried out according to regulation (EC) No. 1907/2006 (REACH) for this substance.

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## SECTION 16. Other information

### Full text of H-Statements referred to under sections 2 and 3.

H226 Flammable liquid and vapour.

### Full text of R-phrases referred to under sections 2 and 3

R10 Flammable.

### Training advice

Provide adequate information, instruction and training for operators.

### Labelling

#### *Hazard pictograms*



#### *Signal word*

Warning

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*Hazard statements*

H226 Flammable liquid and vapour.

*Precautionary statements*

Prevention

P210 Keep away from heat.

**Labelling (67/548/EEC or 1999/45/EC)**

<i>R</i> -phrase(s)	10	Flammable.
<i>S</i> -phrase(s)	16-24	Keep away from sources of ignition - No smoking. Avoid contact with skin.

EC-No. 202-876-1

**Reduced labelling (≤125 ml)**

<i>R</i> -phrase(s)	10	Flammable.
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**Key or legend to abbreviations and acronyms used in the safety data sheet**

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

**Regional representation**

This information is given on the authorised Safety Data Sheet for your country.

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*The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.*

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## EXPOSURE SCENARIO 1 (Industrial use)

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### 1. Industrial use (Chemical for synthesis)

#### Sectors of end-use

- SU 3* Industrial uses: Uses of substances as such or in preparations at industrial sites
- SU 9* Manufacture of fine chemicals
- SU 10* Formulation [mixing] of preparations and/ or re-packaging (excluding alloys)

#### Chemical product category

- PC19* Intermediate
- PC21* Laboratory chemicals

#### Process categories

- PROC1* Use in closed process, no likelihood of exposure
- PROC2* Use in closed, continuous process with occasional controlled exposure
- PROC3* Use in closed batch process (synthesis or formulation)
- PROC4* Use in batch and other process (synthesis) where opportunity for exposure arises
- PROC5* Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)
- PROC8a* Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities
- PROC8b* Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities
- PROC9* Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
- PROC10* Roller application or brushing
- PROC15* Use as laboratory reagent

#### Environmental Release Categories

- ERC2* Formulation of preparations
  - ERC4* Industrial use of processing aids in processes and products, not becoming part of articles
  - ERC6a* Industrial use resulting in manufacture of another substance (use of intermediates)
  - ERC6b* Industrial use of reactive processing aids
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### 2. Contributing scenarios: Operational conditions and risk management measures

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#### 2.1 Contributing scenario controlling worker exposure for: PROC1



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**Product characteristics**

Concentration of the Substance in Mixture/Article	Covers the percentage of the substance in the product up to 100 %.
Physical Form (at time of use)	Low volatile liquid
Process Temperature	< 45 °C

**Frequency and duration of use**

Frequency of use	8 hours/day
Frequency of use	5 days/week

**Other operational conditions affecting workers exposure**

Outdoor / Indoor	Indoor without local exhaust ventilation (LEV)
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**Organisational measures to prevent /limit releases, dispersion and exposure**

Covers daily exposures up to 8 hours.

**Conditions and measures related to personal protection, hygiene and health evaluation**

Wear suitable gloves tested to EN374. Tightly fitting safety goggles

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**2.2 Contributing scenario controlling worker exposure for: PROC2, PROC3, PROC4, PROC8b, PROC15**

**Product characteristics**

Concentration of the Substance in Mixture/Article	Covers the percentage of the substance in the product up to 100 %.
Physical Form (at time of use)	Low volatile liquid
Process Temperature	< 45 °C

**Frequency and duration of use**

Frequency of use	8 hours/day
Frequency of use	5 days/week

**Other operational conditions affecting workers exposure**

Outdoor / Indoor	Indoor with local exhaust ventilation (LEV)
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**Organisational measures to prevent /limit releases, dispersion and exposure**

Covers daily exposures up to 8 hours.

**Conditions and measures related to personal protection, hygiene and health evaluation**

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Wear suitable gloves tested to EN374. Tightly fitting safety goggles

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## 2.3 Contributing scenario controlling worker exposure for: PROC5, PROC8a, PROC9, PROC10

### Product characteristics

Concentration of the Substance in Mixture/Article	Covers the percentage of the substance in the product up to 100 %.
Physical Form (at time of use)	Low volatile liquid
Process Temperature	< 45 °C

### Frequency and duration of use

Frequency of use	8 hours/day
Frequency of use	5 days/week

### Other operational conditions affecting workers exposure

Outdoor / Indoor	Indoor with LEV and good general ventilation
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### Organisational measures to prevent /limit releases, dispersion and exposure

Covers daily exposures up to 8 hours.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Tightly fitting safety goggles

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## 3. Exposure estimation and reference to its source

### Environment

A chemical safety assessment was performed according REACH Article 14(3), Annex I, sections 3 (Environmental Hazard Assessment) and 4 (PBT/vPvB Assessment). As no hazard was identified, an exposure assessment and risk characterisation is not necessary (REACH Annex I section 5.0).

### Workers

CS	Use descriptor	Exposure duration, route, effect	RCR	Exposure Assessment Method
2.1	PROC1	longterm, inhalative, systemic	< 0,01	ECETOC TRA 3

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2.2	PROC2	longterm, inhalative, systemic	0,11	ECETOC TRA 3
2.2	PROC3	longterm, inhalative, systemic	0,23	ECETOC TRA 3
2.2	PROC4	longterm, inhalative, systemic	0,45	ECETOC TRA 3
2.2	PROC8b	longterm, inhalative, systemic	0,28	ECETOC TRA 3
2.2	PROC15	longterm, inhalative, systemic	0,23	ECETOC TRA 3
2.3	PROC5	longterm, inhalative, systemic	0,79	ECETOC TRA 3
2.3	PROC8a	longterm, inhalative, systemic	0,79	ECETOC TRA 3
2.3	PROC9	longterm, inhalative, systemic	0,79	ECETOC TRA 3
2.3	PROC10	longterm, inhalative, systemic	0,79	ECETOC TRA 3

The default parameters and -efficiencies of the applied exposure assessment model were used for the calculation (unless stated differently).

#### 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Please refer to the following documents: ECHA Guidance on information requirements and chemical safety assessment Chapter R.12: Use descriptor system; ECHA Guidance for downstream users; ECHA Guidance on information requirements and chemical safety assessment Part D: Exposure Scenario Building, Part E: Risk Characterisation and Part G: Extending the SDS; VCI/Cefic REACH Practical Guides on Exposure Assessment and Communications in the Supply Chain; CEFIC Guidance Specific Environmental Release Categories (SPERCs).

For scaling of worker exposure assessments performed with ECETOC TRA, please consult the Merck tool SciDeEx® at [www.merckmillipore.com/scideex](http://www.merckmillipore.com/scideex).

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## EXPOSURE SCENARIO 2 (Professional use)

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### 1. Professional use (Chemical for synthesis)

#### Sectors of end-use

*SU 22* Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Chemical product category

*PC21* Laboratory chemicals

#### Process categories

*PROC15* Use as laboratory reagent

#### Environmental Release Categories

*ERC8a* Wide dispersive indoor use of processing aids in open systems

*ERC8b* Wide dispersive indoor use of reactive substances in open systems

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### 2. Contributing scenarios: Operational conditions and risk management measures

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#### 2.1 Contributing scenario controlling worker exposure for: PROC15

##### Product characteristics

Concentration of the Substance in Mixture/Article	Covers the percentage of the substance in the product up to 100 %.
Physical Form (at time of use)	Low volatile liquid
Process Temperature	< 45 °C

##### Frequency and duration of use

Frequency of use	8 hours/day
Frequency of use	5 days/week

##### Other operational conditions affecting workers exposure

Outdoor / Indoor	Indoor with local exhaust ventilation (LEV)
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##### Organisational measures to prevent /limit releases, dispersion and exposure

Covers daily exposures up to 8 hours.

##### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Tightly fitting safety goggles

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### 3. Exposure estimation and reference to its source

#### Environment

A chemical safety assessment was performed according REACH Article 14(3), Annex I, sections 3 (Environmental Hazard Assessment) and 4 (PBT/vPvB Assessment). As no hazard was identified, an exposure assessment and risk characterisation is not necessary (REACH Annex I section 5.0).

#### Workers

CS	Use descriptor	Exposure duration, route, effect	RCR	Exposure Assessment Method
2.1	PROC15	longterm, inhalative, systemic	0,45	ECETOC TRA 3

The default parameters and -efficiencies of the applied exposure assessment model were used for the calculation (unless stated differently).

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### 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Please refer to the following documents: ECHA Guidance on information requirements and chemical safety assessment Chapter R.12: Use descriptor system; ECHA Guidance for downstream users; ECHA Guidance on information requirements and chemical safety assessment Part D: Exposure Scenario Building, Part E: Risk Characterisation and Part G: Extending the SDS; VCI/Cefic REACH Practical Guides on Exposure Assessment and Communications in the Supply Chain; CEFIC Guidance Specific Environmental Release Categories (SPERCs).

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