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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 01.07.2026 / 0005

Replacing version dated / version: 30.08.2023 / 0004

Valid from: 01.07.2026

PDF print date: 01.07.2026

PJ ADV TNTK INK C Art.-Nr. 1338680000

PJ ADV TNTK INK M Art.-Nr. 1338670000

PJ ADV TNTK INK Y Art.-Nr. 1338650000

PJ ADV TNTK INK K Art.-Nr. 1338690000

PJ ADV TNTK INK SET Art.-Nr. 1338720000

PJ CON INK SET Art.-Nr. 2715600000

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## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

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

#### 1.1 Product identifier

**PJ ADV TNTK INK C Art.-Nr. 1338680000**

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**PJ CON INK K Art.-Nr. 2715640000**

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

**Relevant identified uses of the substance or mixture:**

Ink

**Uses advised against:**

No information available at present.

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

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

32758 Detmold

Deutschland

Tel.: +49 5231 14-0

Fax: +49 5231 14-292083

E-Mail: [info@weidmueller.de](mailto:info@weidmueller.de)

Homepage: [www.weidmueller.de](http://www.weidmueller.de)

Qualified person's e-mail address: [info@chemical-check.de](mailto:info@chemical-check.de), [k.schnurbusch@chemical-check.de](mailto:k.schnurbusch@chemical-check.de) Please DO NOT use for requesting Safety Data Sheets.

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## 1.4 Emergency telephone number

### Emergency information services / official advisory body:

IRL

National Poisons Information Centre, Beaumont Hospital, Dublin 9, Ireland, Tel.:

+353 (0)1 809 2166 (Public Poisons Info Line, 8am-10pm, 7 days a week)

+353 (0)1 809 2566 (Info for Healthcare Professionals ONLY, 24 h, 7 days a week)

### Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (WR)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) 1272/2008 (CLP)

| Hazard class | Hazard category | Hazard statement                    |
|--------------|-----------------|-------------------------------------|
| Eye Irrit.   | 2               | H319-Causes serious eye irritation. |

### 2.2 Label elements

#### Labeling according to Regulation (EC) 1272/2008 (CLP)



Warning

H319-Causes serious eye irritation.

P280-Wear eye protection / face protection.

P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313-If eye irritation persists: Get medical advice / attention.

EUH208-Contains Formaldehyde, 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

n.a.

### 3.2 Mixtures

| Propan-2-ol                                                            |                                                                                                                                 |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Registration number (REACH)                                            | 01-2119457558-25-XXXX                                                                                                           |
| Index                                                                  | 603-117-00-0                                                                                                                    |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 200-661-7                                                                                                                       |
| CAS                                                                    | 67-63-0                                                                                                                         |
| content %                                                              | 1-5                                                                                                                             |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336                                                                     |
| Reaction product of alkylaryl sulphonic acid and amine                 |                                                                                                                                 |
| Registration number (REACH)                                            | ---                                                                                                                             |
| Index                                                                  | ---                                                                                                                             |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | ---                                                                                                                             |
| CAS                                                                    | ---                                                                                                                             |
| content %                                                              | 1-5                                                                                                                             |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319                                                                                       |
| 2-methylpropan-1-ol                                                    |                                                                                                                                 |
| Registration number (REACH)                                            | ---                                                                                                                             |
| Index                                                                  | 603-108-00-1                                                                                                                    |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 201-148-0                                                                                                                       |
| CAS                                                                    | 78-83-1                                                                                                                         |
| content %                                                              | <3                                                                                                                              |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>STOT SE 3, H336                             |
| 2-dimethylaminoethanol                                                 |                                                                                                                                 |
| Registration number (REACH)                                            | ---                                                                                                                             |
| Index                                                                  | 603-047-00-0                                                                                                                    |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 203-542-8                                                                                                                       |
| CAS                                                                    | 108-01-0                                                                                                                        |
| content %                                                              | <1                                                                                                                              |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Flam. Liq. 3, H226<br>Acute Tox. 3, H331<br>Acute Tox. 4, H302<br>Acute Tox. 4, H312<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318 |

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|                                              |                                                                                                                                                                                 |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specific Concentration Limits and ATE</b> | STOT SE 3, H335: $\geq 5$ %<br>ATE (oral): 1182 mg/kg<br>ATE (dermal): 1219 mg/kg<br>ATE (as inhalation, Dusts or mist): 0,5 mg/l/4h<br>ATE (as inhalation, Vapours): 6 mg/l/4h |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                               |                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Methanol</b>                                                               | <b>Substance for which an EU exposure limit value applies.</b>                                                                                                                                                |
| <b>Registration number (REACH)</b>                                            | 01-2119433307-44-XXXX                                                                                                                                                                                         |
| <b>Index</b>                                                                  | 603-001-00-X                                                                                                                                                                                                  |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 200-659-6                                                                                                                                                                                                     |
| <b>CAS</b>                                                                    | 67-56-1                                                                                                                                                                                                       |
| <b>content %</b>                                                              | <0,25                                                                                                                                                                                                         |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Flam. Liq. 2, H225<br>Acute Tox. 3, H301<br>Acute Tox. 3, H311<br>Acute Tox. 3, H331<br>STOT SE 1, H370 (eyes, central nervous system)                                                                        |
| <b>Specific Concentration Limits and ATE</b>                                  | STOT SE 1, H370: $\geq 10$ %<br>STOT SE 2, H371: $\geq 3$ %<br>ATE (oral): 300 mg/kg<br>ATE (dermal): 300 mg/kg<br>ATE (as inhalation, Dusts or mist): 0,5 mg/l/4h<br>ATE (as inhalation, Vapours): 3 mg/l/4h |

|                                                                               |                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Formaldehyde</b>                                                           | <b>Substance for which an EU exposure limit value applies.</b>                                                                                                                                            |
| <b>Registration number (REACH)</b>                                            | 01-2119488953-20-XXXX                                                                                                                                                                                     |
| <b>Index</b>                                                                  | 605-001-00-5                                                                                                                                                                                              |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 200-001-8                                                                                                                                                                                                 |
| <b>CAS</b>                                                                    | 50-00-0                                                                                                                                                                                                   |
| <b>content %</b>                                                              | <0,1                                                                                                                                                                                                      |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Acute Tox. 2, H330<br>Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317<br>Muta. 2, H341<br>Carc. 1B, H350                                                             |
| <b>Specific Concentration Limits and ATE</b>                                  | Skin Corr. 1B, H314: $\geq 25$ %<br>Skin Irrit. 2, H315: $\geq 5$ %<br>Eye Irrit. 2, H319: $\geq 5$ %<br>STOT SE 3, H335: $\geq 5$ %<br>ATE (oral): 500 mg/kg<br>ATE (as inhalation, Gasses): 100 ppmV/4h |

|                                               |              |
|-----------------------------------------------|--------------|
| <b>1,2-benzisothiazol-3(2H)-one</b>           |              |
| <b>Registration number (REACH)</b>            | ---          |
| <b>Index</b>                                  | 613-088-00-6 |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b> | 220-120-9    |
| <b>CAS</b>                                    | 2634-33-5    |

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|                                                                               |                                                                                                                                                                            |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>content %</b>                                                              | <0,036                                                                                                                                                                     |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Acute Tox. 2, H330<br>Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1) |
| <b>Specific Concentration Limits and ATE</b>                                  | Skin Sens. 1A, H317: >=0,036 %<br>ATE (oral): 450 mg/kg<br>ATE (as inhalation, Dusts or mist): 0,21 mg/l/4h<br>ATE (as inhalation, Vapours): 0,5 mg/l/4h                   |

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

#### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Rinse the mouth thoroughly with water.

Give copious water to drink - consult doctor immediately.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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

Elementary aid

Decontamination

Symptomatic treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

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## Suitable extinguishing media

Water jet spray / alcohol resistant foam / CO<sub>2</sub> / dry extinguisher.

## Unsuitable extinguishing media

None known

## 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Toxic gases

## 5.3 Advice for firefighters

For personal protective equipment see Section 8.

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

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Dispose of contaminated extinction water according to official regulations.

## SECTION 6: Accidental release measures

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

#### 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Keep unprotected persons away.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

#### 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

### 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

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

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

## SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

### 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

Ensure good ventilation.

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Avoid aerosol formation.

Avoid inhalation of the vapours.

Avoid contact with eyes or skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Also seal emptied tanks and tanks in the process after they have been used.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

## 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Only store at temperatures from 4°C to 25°C.

## 7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries,

depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

| Chemical Name                | Propan-2-ol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |                        |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------|
| WEL-TWA: 400 ppm (999 mg/m3) | WEL-STEL: 500 ppm (1250 mg/m3)                                                                                                                                                                                                                                                                                                                                                                                                                                                             | --- |                        |
| Monitoring procedures:       | <ul style="list-style-type: none"><li>- Draeger - Alcohol 25/a i-Propanol (81 01 631)</li><li>- Compur - KITA-122 SA(C) (549 277)</li><li>- Compur - KITA-150 U (550 382)</li><li>- DFG (D) (Lösungsmittelgemische), DFG (E) (Solvent mixtures 6) - 2013, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 66-3 (2004)</li><li>- NIOSH 1400 (ALCOHOLS I) - 1994</li><li>- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996</li><li>- Draeger - Alcohol 100/a (CH 29 701)</li></ul> |     |                        |
| BMGV: ---                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     | Other information: --- |

| Chemical Name          | Propan-2-ol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |  |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--|
| OELV-8h: 200 ppm       | OELV-15min: 400 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | --- |  |
| Monitoring procedures: | <ul style="list-style-type: none"><li>- Draeger - Alcohol 25/a i-Propanol (81 01 631)</li><li>- Compur - KITA-122 SA(C) (549 277)</li><li>- Compur - KITA-150 U (550 382)</li><li>- DFG (D) (Lösungsmittelgemische), DFG (E) (Solvent mixtures 6) - 2013, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 66-3 (2004)</li><li>- NIOSH 1400 (ALCOHOLS I) - 1994</li><li>- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996</li><li>- Draeger - Alcohol 100/a (CH 29 701)</li></ul> |     |  |

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|                                         |                         |
|-----------------------------------------|-------------------------|
| BLV: 40 mg/l (acetone, U, d) (ACGIH-BE) | Other information: Skin |
|-----------------------------------------|-------------------------|

| Chemical Name                            | 2-methylpropan-1-ol                                                                                                                                                                                                          |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WEL-TWA: 50 ppm (154 mg/m <sup>3</sup> ) | WEL-STEL: 75 ppm (231 mg/m <sup>3</sup> )                                                                                                                                                                                    |
| Monitoring procedures:                   | <ul style="list-style-type: none"> <li>- Compur - KITA-208 U (549 426)</li> <li>- NIOSH 1401 (ALCOHOLS II) - 1994</li> <li>- NIOSH 1405 (ALCOHOLS COMBINED) - 2003</li> <li>- Draeger - Alcohol 100/a (CH 29 701)</li> </ul> |
| BMGV: ---                                | Other information: ---                                                                                                                                                                                                       |

| Chemical Name                            | 2-methylpropan-1-ol                                                                                                                                                                                                          |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OELV-8h: 50 ppm (150 mg/m <sup>3</sup> ) | OELV-15min: 75 ppm (225 mg/m <sup>3</sup> )                                                                                                                                                                                  |
| Monitoring procedures:                   | <ul style="list-style-type: none"> <li>- Compur - KITA-208 U (549 426)</li> <li>- NIOSH 1401 (ALCOHOLS II) - 1994</li> <li>- NIOSH 1405 (ALCOHOLS COMBINED) - 2003</li> <li>- Draeger - Alcohol 100/a (CH 29 701)</li> </ul> |
| BLV: ---                                 | Other information: ---                                                                                                                                                                                                       |

| Chemical Name                           | 2-dimethylaminoethanol                  |
|-----------------------------------------|-----------------------------------------|
| WEL-TWA: 2 ppm (7,4 mg/m <sup>3</sup> ) | WEL-STEL: 6 ppm (22 mg/m <sup>3</sup> ) |
| Monitoring procedures:                  | ---                                     |
| BMGV: ---                               | Other information: ---                  |

| Chemical Name                                                                              | Methanol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WEL-TWA: 200 ppm (266 mg/m <sup>3</sup> ) (WEL-TWA), 200 ppm (260 mg/m <sup>3</sup> ) (EU) | WEL-STEL: 250 ppm (333 mg/m <sup>3</sup> ) (WEL-STEL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Monitoring procedures:                                                                     | <ul style="list-style-type: none"> <li>- Draeger - Alcohol 25/a Methanol (81 01 631)</li> <li>- Compur - KITA-119 SA (549 640)</li> <li>- Compur - KITA-119 U (549 657)</li> <li>- DFG Meth. Nr. 6 (D) (Lösungsmittelgemische 6), DFG (E) (Solvent mixtures 6) - 2013, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 65-1 (2004)</li> <li>- NIOSH 2000 (METHANOL) - 1998</li> <li>- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996</li> <li>- NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR SPECTROMETRY) - 2016</li> <li>- Draeger - Alcohol 100/a (CH 29 701)</li> </ul> |
| BMGV: ---                                                                                  | Other information: Sk (WEL, EU)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| Chemical Name                                           | Methanol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OELV-8h: 200 ppm (260 mg/m <sup>3</sup> ) (OELV-8h, EU) | OELV-15min: ---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Monitoring procedures:                                  | <ul style="list-style-type: none"> <li>- Draeger - Alcohol 25/a Methanol (81 01 631)</li> <li>- Compur - KITA-119 SA (549 640)</li> <li>- Compur - KITA-119 U (549 657)</li> <li>- DFG Meth. Nr. 6 (D) (Lösungsmittelgemische 6), DFG (E) (Solvent mixtures 6) - 2013, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 65-1 (2004)</li> <li>- NIOSH 2000 (METHANOL) - 1998</li> <li>- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996</li> <li>- NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR SPECTROMETRY) - 2016</li> <li>- Draeger - Alcohol 100/a (CH 29 701)</li> </ul> |
| BLV: 15mg methanol/L urine (End of shift, B, Ns)        | Other information: Skin, IOELV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| Chemical Name                                                                             | Formaldehyde                                                                                |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| WEL-TWA: 2 ppm (2,5 mg/m <sup>3</sup> ) (WEL-TWA), 0,3 ppm (0,37 mg/m <sup>3</sup> ) (EU) | WEL-STEL: 2 ppm (2,5 mg/m <sup>3</sup> ) (WEL-STEL), 0,6 ppm (0,74 mg/m <sup>3</sup> ) (EU) |
|                                                                                           | ---                                                                                         |

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PDF print date: 01.07.2026

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## Monitoring procedures:

- Draeger - Activation tube for use in conjunction with Formaldehyde 0.2/a tube (81 01 141)
- Draeger - Formaldehyde 0,2/a (67 33 081)
- Draeger - Formaldehyde 2/a (81 01 751)
- Compur - KITA-171 SA (554 616)
- Compur - KITA-171 SB (549 319)
- Compur - KITA-171 SC (509 859)
- DFG (D) (Aldehyde), DFG (E) (Aldehydes) - 1996, 2002
- NIOSH 2016 (FORMALDEHYDE) - 2016
- NIOSH 2539 (ALDEHYDES, SCREENING) - 1994
- NIOSH 2541 (FORMALDEHYDE by GC) - 1994
- NIOSH 3500 (FORMALDEHYDE by VIS) - 1994
- NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR SPECTROMETRY) - 2016
- NIOSH 5700 (FORMALDEHYDE ON DUST (TEXTILE OR WOOD)) - 2016
- OSHA ID-205 (Formaldehyde in workplace atmospheres (3M model 3721 monitor)) - 1989 - EU project BC/CEN/ENTR/000/2002-16 card 57-5 (2004)

BMGV: ---

Other information: (14) (EU)

## Chemical Name

Formaldehyde

OELV-8h: 0,3 ppm (0,37 mg/m<sup>3</sup>) (OELV-8h, EU)

OELV-15min: 0,6 ppm (0,74 mg/m<sup>3</sup>) (OELV-15min, EU)

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## Monitoring procedures:

- Draeger - Activation tube for use in conjunction with Formaldehyde 0.2/a tube (81 01 141)
- Draeger - Formaldehyde 0,2/a (67 33 081)
- Draeger - Formaldehyde 2/a (81 01 751)
- Compur - KITA-171 SA (554 616)
- Compur - KITA-171 SB (549 319)
- Compur - KITA-171 SC (509 859)
- DFG (D) (Aldehyde), DFG (E) (Aldehydes) - 1996, 2002
- NIOSH 2016 (FORMALDEHYDE) - 2016
- NIOSH 2539 (ALDEHYDES, SCREENING) - 1994
- NIOSH 2541 (FORMALDEHYDE by GC) - 1994
- NIOSH 3500 (FORMALDEHYDE by VIS) - 1994
- NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR SPECTROMETRY) - 2016
- NIOSH 5700 (FORMALDEHYDE ON DUST (TEXTILE OR WOOD)) - 2016
- OSHA ID-205 (Formaldehyde in workplace atmospheres (3M model 3721 monitor)) - 1989 - EU project BC/CEN/ENTR/000/2002-16 card 57-5 (2004)

BLV: ---

Other information: BOELV, CMR, Sens (OELV) / (14) (EU)

## Propan-2-ol

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit     | Note |
|---------------------|--------------------------------------------|------------------|------------|-------|----------|------|
|                     | Environment - freshwater                   |                  | PNEC       | 140,9 | mg/l     |      |
|                     | Environment - marine                       |                  | PNEC       | 140,9 | mg/l     |      |
|                     | Environment - sediment, freshwater         |                  | PNEC       | 552   | mg/kg dw |      |

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|                     |                                                      |                              |      |       |              |  |
|---------------------|------------------------------------------------------|------------------------------|------|-------|--------------|--|
|                     | Environment - sediment, marine                       |                              | PNEC | 552   | mg/kg dw     |  |
|                     | Environment - soil                                   |                              | PNEC | 28    | mg/kg dw     |  |
|                     | Environment - sewage treatment plant                 |                              | PNEC | 2251  | mg/l         |  |
|                     | Environment - water, sporadic (intermittent) release |                              | PNEC | 140,9 | mg/l         |  |
|                     | Environment - oral (animal feed)                     |                              | PNEC | 160   | mg/kg feed   |  |
| Consumer            | Human - inhalation                                   | Short term, systemic effects | DNEL | 178   | mg/m3        |  |
| Consumer            | Human - dermal                                       | Long term, systemic effects  | DNEL | 319   | mg/kg bw/day |  |
| Consumer            | Human - inhalation                                   | Long term, systemic effects  | DNEL | 89    | mg/m3        |  |
| Consumer            | Human - oral                                         | Long term, systemic effects  | DNEL | 26    | mg/kg bw/day |  |
| Consumer            | Human - oral                                         | Short term, systemic effects | DNEL | 51    | mg/kg        |  |
| Workers / employees | Human - dermal                                       | Long term, systemic effects  | DNEL | 888   | mg/kg bw/day |  |
| Workers / employees | Human - inhalation                                   | Long term, systemic effects  | DNEL | 500   | mg/m3        |  |
| Workers / employees | Human - inhalation                                   | Short term, systemic effects | DNEL | 1000  | mg/m3        |  |

## 2-methylpropan-1-ol

| Area of application | Exposure route / Environmental compartment           | Effect on health            | Descriptor | Value  | Unit  | Note |
|---------------------|------------------------------------------------------|-----------------------------|------------|--------|-------|------|
|                     | Environment - freshwater                             |                             | PNEC       | 0,4    | mg/l  |      |
|                     | Environment - marine                                 |                             | PNEC       | 0,04   | mg/l  |      |
|                     | Environment - sediment, freshwater                   |                             | PNEC       | 1,52   | mg/kg |      |
|                     | Environment - sediment, marine                       |                             | PNEC       | 0,152  | mg/kg |      |
|                     | Environment - sewage treatment plant                 |                             | PNEC       | 10     | mg/l  |      |
|                     | Environment - soil                                   |                             | PNEC       | 0,0699 | mg/kg |      |
|                     | Environment - water, sporadic (intermittent) release |                             | PNEC       | 11     | mg/l  |      |
| Consumer            | Human - oral                                         | Long term, local effects    | DNEL       | 25     | mg/m3 |      |
| Consumer            | Human - oral                                         | Long term, systemic effects | DNEL       | 25     | mg/m3 |      |
| Consumer            | Human - inhalation                                   | Long term, local effects    | DNEL       | 55     | mg/m3 |      |
| Consumer            | Human - inhalation                                   | Long term, systemic effects | DNEL       | 55     | mg/m3 |      |

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|                     |                    |                             |      |     |       |  |
|---------------------|--------------------|-----------------------------|------|-----|-------|--|
| Workers / employees | Human - inhalation | Long term, local effects    | DNEL | 310 | mg/m3 |  |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 310 | mg/m3 |  |

| 2-dimethylaminoethanol |                                               |                              |            |        |              |      |
|------------------------|-----------------------------------------------|------------------------------|------------|--------|--------------|------|
| Area of application    | Exposure route / Environmental compartment    | Effect on health             | Descriptor | Value  | Unit         | Note |
|                        | Environment - freshwater                      |                              | PNEC       | 0,0661 | mg/kg        |      |
|                        | Environment - sporadic (intermittent) release |                              | PNEC       | 0,661  | mg/kg        |      |
|                        | Environment - marine                          |                              | PNEC       | 0,004  | mg/kg        |      |
|                        | Environment - soil                            |                              | PNEC       | 0,01   | mg/kg        |      |
|                        | Environment - sewage treatment plant          |                              | PNEC       | 10     | mg/l         |      |
|                        | Environment - sediment, freshwater            |                              | PNEC       | 0,246  | mg/kg        |      |
|                        | Environment - sediment, marine                |                              | PNEC       | 0,015  | mg/kg        |      |
| Consumer               | Human - oral                                  | Long term, systemic effects  | DNEL       | 0,148  | mg/kg        |      |
| Consumer               | Human - inhalation                            | Long term, systemic effects  | DNEL       | 0,438  | mg/m3        |      |
| Workers / employees    | Human - dermal                                | Short term, local effects    | DNEL       | 0,1    | mg/cm2       |      |
| Workers / employees    | Human - dermal                                | Short term, systemic effects | DNEL       | 1,2    | mg/kg bw/day |      |
| Workers / employees    | Human - dermal                                | Long term, systemic effects  | DNEL       | 0,25   | mg/kg bw/day |      |
| Workers / employees    | Human - inhalation                            | Short term, local effects    | DNEL       | 13,53  | mg/m3        |      |
| Workers / employees    | Human - inhalation                            | Short term, systemic effects | DNEL       | 5,28   | mg/m3        |      |
| Workers / employees    | Human - inhalation                            | Long term, local effects     | DNEL       | 1,76   | mg/m3        |      |
| Workers / employees    | Human - inhalation                            | Long term, systemic effects  | DNEL       | 1,76   | mg/m3        |      |

| Formaldehyde        |                                                      |                  |            |       |      |      |
|---------------------|------------------------------------------------------|------------------|------------|-------|------|------|
| Area of application | Exposure route / Environmental compartment           | Effect on health | Descriptor | Value | Unit | Note |
|                     | Environment - freshwater                             |                  | PNEC       | 0,44  | mg/l |      |
|                     | Environment - marine                                 |                  | PNEC       | 0,44  | mg/l |      |
|                     | Environment - water, sporadic (intermittent) release |                  | PNEC       | 4,44  | mg/l |      |

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|                     |                                      |                             |      |       |                       |  |
|---------------------|--------------------------------------|-----------------------------|------|-------|-----------------------|--|
|                     | Environment - sewage treatment plant |                             | PNEC | 0,19  | mg/l                  |  |
|                     | Environment - sediment, freshwater   |                             | PNEC | 2,3   | mg/kg dw              |  |
|                     | Environment - sediment, marine       |                             | PNEC | 2,3   | mg/kg dw              |  |
|                     | Environment - soil                   |                             | PNEC | 0,2   | mg/kg dw              |  |
| Consumer            | Human - inhalation                   | Long term, systemic effects | DNEL | 3,2   | mg/m3                 |  |
| Consumer            | Human - inhalation                   | Long term, local effects    | DNEL | 0,1   | mg/m3                 |  |
| Consumer            | Human - dermal                       | Long term, systemic effects | DNEL | 102   | mg/kg body weight/day |  |
| Consumer            | Human - dermal                       | Long term, local effects    | DNEL | 0,012 | mg/cm2                |  |
| Consumer            | Human - oral                         | Long term, systemic effects | DNEL | 4,1   | mg/kg body weight/day |  |
| Workers / employees | Human - inhalation                   | Long term, systemic effects | DNEL | 9     | mg/m3                 |  |
| Workers / employees | Human - inhalation                   | Long term, local effects    | DNEL | 0,375 | mg/m3                 |  |
| Workers / employees | Human - inhalation                   | Short term, local effects   | DNEL | 0,6   | mg/m3                 |  |
| Workers / employees | Human - dermal                       | Long term, systemic effects | DNEL | 240   | mg/kg body weight/day |  |
| Workers / employees | Human - dermal                       | Long term, local effects    | DNEL | 0,037 | mg/cm2                |  |

## 1,2-benzisothiazol-3(2H)-one

| Area of application | Exposure route / Environmental compartment    | Effect on health            | Descriptor | Value    | Unit         | Note |
|---------------------|-----------------------------------------------|-----------------------------|------------|----------|--------------|------|
|                     | Environment - freshwater                      |                             | PNEC       | 0,00403  | mg/l         |      |
|                     | Environment - marine                          |                             | PNEC       | 0,000403 | mg/l         |      |
|                     | Environment - sediment, freshwater            |                             | PNEC       | 0,0499   | mg/kg dw     |      |
|                     | Environment - sediment, marine                |                             | PNEC       | 0,00499  | mg/kg dw     |      |
|                     | Environment - soil                            |                             | PNEC       | 3        | mg/kg dw     |      |
|                     | Environment - sewage treatment plant          |                             | PNEC       | 1,03     | mg/l         |      |
|                     | Environment - sporadic (intermittent) release |                             | PNEC       | 0,0011   | mg/l         |      |
| Consumer            | Human - dermal                                | Long term, systemic effects | DNEL       | 0,345    | mg/kg bw/day |      |
| Consumer            | Human - inhalation                            | Long term, systemic effects | DNEL       | 1,2      | mg/m3        |      |

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|                     |                    |                             |      |       |            |  |
|---------------------|--------------------|-----------------------------|------|-------|------------|--|
| Workers / employees | Human - dermal     | Long term, systemic effects | DNEL | 0,966 | mg/kg bw/d |  |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 6,81  | mg/m3      |  |

**GB** - United Kingdom | WEL-TWA = Workplace Exposure Limit - Long-term exposure limit - 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).  
(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:  
(8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (11) = Inhalable fraction (2004/37/EC). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (2004/37/EC). |  
| WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).  
(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:  
(8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |  
| BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).  
(EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |  
| Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU:  
(13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/EC), (14) = The substance can cause sensitisation of the skin (2004/37/EC), (15) = Substantial contribution to the total body burden via dermal exposure possible. |

**IRL** - Ireland/Éire | OELV-8h = Occupational Exposure Limit Value - 8-hour reference period (Code of Practice 2026, for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2026) and the Safety, Health and Welfare at Work (Carcinogens, Mutagens and Reprotoxic Substances) Regulations (2024 and 2026) (Health and Safety Authority)): (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.  
(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:  
(8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (11) = Inhalable fraction (2004/37/EC). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (2004/37/EC). |  
| OELV-15min = Occupational Exposure Limit Value - 15-minute reference period (Code of Practice 2026, for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2026) and the Safety, Health and Welfare at Work (Carcinogens, Mutagens and Reprotoxic Substances) Regulations (2024 and 2026) (Health and Safety Authority)): (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.  
(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:  
(8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |  
| BMGV = Biological Monitoring Guidance Value (Biological Monitoring Guidelines 2011, HSA (Health and Safety Authority)): ACGIH-BEI = BMGV have been sourced from Biological Exposure Indices (BEI) as issued by the American Conference of Governmental Industrial Hygienists (ACGIH). SCOEL = BMGV have been sourced from the Scientific Committee on Occupational Exposure Limit Values (SCOEL) which was set up by a Commission Decision (95/320/EC) with the mandate to advise the European Commission on occupational exposure limits for chemicals in the workplace. HSE = BMGV have been sourced from the Health and Safety Executive (HSE), UK.  
BBLV = Binding Biological Limit Value (Schedule 5 - Health Surveillance and Biological Limit Values, Code of Practice 2026 for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2026) and the Safety, Health and Welfare at Work (Carcinogens, Mutagens and Reprotoxic Substances) Regulations (2024-2026) (Health and Safety Authority)  
(EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee

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on Occupational Exposure Limits (SCOEL)) |

| Other information (Chemical Agents and CMR CoP (Code of Practice) 2026, HSA (Health and Safety Authority)): CMR = Carcinogens, Mutagens and Reprotoxic substances. Skin = Can be absorbed through skin. Asphx = asphyxiant. Sens = The substance can cause sensitisation. BOELV = Binding Occupational Exposure Limit Values. IOELV = Indicative Occupational Exposure Limit Values.

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU:

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE), (15) = Substantial contribution to the total body burden via dermal exposure possible. |

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN ISO 16321-1).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

Recommended

Protective nitrile gloves (EN ISO 374).

Minimum layer thickness in mm:

$\geq 0,35$

Permeation time (penetration time) in minutes:

$\geq 480$

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other:

Protective working clothes with long arms

Respiratory protection:

If the workplace limit value is exceeded.

Gas mask filter A (EN 14387), code colour brown

Observe wearing time limitations for respiratory protection equipment.

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Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

## 8.2.3 Environmental exposure controls

No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                           |                                                      |
|-----------------------------------------------------------|------------------------------------------------------|
| Physical state:                                           | Liquid                                               |
| Colour:                                                   | Black                                                |
| Odour:                                                    | Slightly                                             |
| Odour threshold:                                          | n.a.                                                 |
| Melting point/freezing point:                             | n.a.                                                 |
| Boiling point or initial boiling point and boiling range: | n.a.                                                 |
| Flammability:                                             | There is no information available on this parameter. |
| Lower explosion limit:                                    | There is no information available on this parameter. |
| Upper explosion limit:                                    | There is no information available on this parameter. |
| Flash point:                                              | >60 °C (DIN 51755 (Abel-Pensky, closed cup))         |
| Auto-ignition temperature:                                | n.a.                                                 |
| Decomposition temperature:                                | There is no information available on this parameter. |
| pH:                                                       | 8,75-9,25 (20°C)                                     |
| Kinematic viscosity:                                      | 6,2-8,2 mPas (25°C, DIN 53019, Dynamic viscosity )   |
| Solubility:                                               | There is no information available on this parameter. |
| Partition coefficient n-octanol/water (log value):        | Does not apply to mixtures.                          |
| Vapour pressure:                                          | n.a.                                                 |
| Density and/or relative density:                          | 1,063-1,078 kg/l (20°C, DIN EN ISO 15212-1)          |
| Relative vapour density:                                  | There is no information available on this parameter. |
| Particle characteristics:                                 | Does not apply to liquids.                           |

### 9.2 Other information

|                    |                                                      |
|--------------------|------------------------------------------------------|
| Explosives:        | There is no information available on this parameter. |
| Oxidising liquids: | There is no information available on this parameter. |
| Evaporation rate:  | n.a.                                                 |
| Surface tension:   | 32-34 mN/m (20°C)                                    |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Violent reaction with:

Alkali metals

### 10.2 Chemical stability

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Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

Hazardous reactions will not occur during storage and handling under normal conditions.

### 10.4 Conditions to avoid

See also section 7.

Heating

### 10.5 Incompatible materials

See also section 7.

Alkali metals

Oxidizing agents

Reducing agent

### 10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

## SECTION 11: Toxicological information

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

Possibly more information on health effects, see Section 2.1 (classification).

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| Toxicity / effect                                           | Endpoint | Value | Unit    | Organism | Test method | Notes                     |
|-------------------------------------------------------------|----------|-------|---------|----------|-------------|---------------------------|
| Acute toxicity, by oral route:                              | ATE      | >2000 | mg/kg   |          |             | calculated value          |
| Acute toxicity, by dermal route:                            | ATE      | >2000 | mg/kg   |          |             | calculated value          |
| Acute toxicity, by inhalation:                              | ATE      | >20   | mg/l/4h |          |             | Vapours, calculated value |
| Acute toxicity, by inhalation:                              | ATE      | >5    | mg/l/4h |          |             | Aerosol, calculated value |
| Skin corrosion/irritation:                                  |          |       |         |          |             | n.d.a.                    |
| Serious eye damage/irritation:                              |          |       |         |          |             | n.d.a.                    |
| Respiratory or skin sensitisation:                          |          |       |         |          |             | n.d.a.                    |
| Germ cell mutagenicity:                                     |          |       |         |          |             | n.d.a.                    |
| Carcinogenicity:                                            |          |       |         |          |             | n.d.a.                    |
| Reproductive toxicity:                                      |          |       |         |          |             | n.d.a.                    |
| Specific target organ toxicity - single exposure (STOT-SE): |          |       |         |          |             | n.d.a.                    |

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|                                                               |  |  |  |  |  |        |
|---------------------------------------------------------------|--|--|--|--|--|--------|
| Specific target organ toxicity - repeated exposure (STOT-RE): |  |  |  |  |  | n.d.a. |
| Aspiration hazard:                                            |  |  |  |  |  | n.d.a. |
| Symptoms:                                                     |  |  |  |  |  | n.d.a. |

| Propan-2-ol                                                 |          |             |            |                        |                                                       |                                                     |
|-------------------------------------------------------------|----------|-------------|------------|------------------------|-------------------------------------------------------|-----------------------------------------------------|
| Toxicity / effect                                           | Endpoint | Value       | Unit       | Organism               | Test method                                           | Notes                                               |
| Acute toxicity, by oral route:                              | LD50     | 4570-5840   | mg/kg      | Rat                    | OECD 401 (Acute Oral Toxicity)                        |                                                     |
| Acute toxicity, by dermal route:                            | LD50     | 12800-13900 | mg/kg      | Rabbit                 | OECD 402 (Acute Dermal Toxicity)                      |                                                     |
| Acute toxicity, by inhalation:                              | LC50     | > 25        | mg/l/6h    | Rat                    | OECD 403 (Acute Inhalation Toxicity)                  | Vapours                                             |
| Acute toxicity, by inhalation:                              | LC50     | 46600       | mg/l/4h    | Rat                    |                                                       | Aerosol                                             |
| Skin corrosion/irritation:                                  |          |             |            | Rabbit                 | OECD 404 (Acute Dermal Irritation/Corrosion)          | Not irritant                                        |
| Serious eye damage/irritation:                              |          |             |            | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)             | Eye Irrit. 2                                        |
| Respiratory or skin sensitisation:                          |          |             |            | Guinea pig             | OECD 406 (Skin Sensitisation)                         | No (skin contact)                                   |
| Germ cell mutagenicity:                                     |          |             |            | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)            | Negative                                            |
| Germ cell mutagenicity:                                     |          |             |            | Mouse                  | OECD 474 (Mammalian Erythrocyte Micronucleus Test)    | Negative                                            |
| Germ cell mutagenicity:                                     |          |             |            | Mammalian              | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative, Chinese hamster                           |
| Carcinogenicity:                                            |          |             |            |                        |                                                       | Negative                                            |
| Reproductive toxicity:                                      | NOAEL    | 500         | mg/kg/d    | Rat                    | OECD 416 (Two-generation Reproduction Toxicity Study) | Negative (oral, 7 weeks)                            |
| Reproductive toxicity:                                      | NOAEL    | 853         | mg/kg bw/d | Rat                    | OECD 415 (One-Generation Reproduction Toxicity Study) | Negative                                            |
| Reproductive toxicity:                                      | NOAEL    | 400         | mg/kg bw/d | Rat                    | OECD 414 (Prenatal Developmental Toxicity Study)      | Negative                                            |
| Specific target organ toxicity - single exposure (STOT-SE): |          |             |            |                        |                                                       | STOT SE 3, H336, May cause drowsiness or dizziness. |

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|-------------------------------------------------------------------------|-------|------|---------|-----|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Specific target organ toxicity - repeated exposure (STOT-RE), oral:     | NOAEL | 900  | mg/kg/d | Rat | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |                                                                                                                         |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 5000 | ppm     | Rat |                                                                | Vapours (OECD 451)                                                                                                      |
| Aspiration hazard:                                                      |       |      |         |     |                                                                | No                                                                                                                      |
| Symptoms:                                                               |       |      |         |     |                                                                | breathing difficulties, unconsciousness, vomiting, headaches, fatigue, dizziness, nausea, eyes, reddened, watering eyes |

| 2-methylpropan-1-ol                                                     |          |           |         |                        |                                                    |                                                                         |
|-------------------------------------------------------------------------|----------|-----------|---------|------------------------|----------------------------------------------------|-------------------------------------------------------------------------|
| Toxicity / effect                                                       | Endpoint | Value     | Unit    | Organism               | Test method                                        | Notes                                                                   |
| Acute toxicity, by oral route:                                          | LD50     | 2460-3350 | mg/kg   | Rat                    | OECD 401 (Acute Oral Toxicity)                     |                                                                         |
| Acute toxicity, by dermal route:                                        | LD50     | >2000     | mg/kg   | Rabbit                 | OECD 402 (Acute Dermal Toxicity)                   |                                                                         |
| Acute toxicity, by inhalation:                                          | LC50     | >18,8     | mg/l/4h | Rat                    |                                                    |                                                                         |
| Skin corrosion/irritation:                                              |          |           |         | Rabbit                 | OECD 404 (Acute Dermal Irritation/Corrosion)       | Skin Irrit. 2                                                           |
| Serious eye damage/irritation:                                          |          |           |         | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)          | Eye Dam. 1                                                              |
| Respiratory or skin sensitisation:                                      |          |           |         | Guinea pig             | OECD 406 (Skin Sensitisation)                      | No (skin contact)                                                       |
| Germ cell mutagenicity:                                                 |          |           |         | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)         | Negative                                                                |
| Germ cell mutagenicity:                                                 |          |           |         | Mouse                  | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative                                                                |
| Specific target organ toxicity - single exposure (STOT-SE), inhalative: |          |           |         |                        |                                                    | Irritation of the respiratory tract, May cause drowsiness or dizziness. |

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|           |  |  |  |  |  |                                                                                                                                             |
|-----------|--|--|--|--|--|---------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms: |  |  |  |  |  | respiratory distress, drowsiness, unconsciousness, vomiting, coughing, headaches, drowsiness, mucous membrane irritation, dizziness, nausea |
|-----------|--|--|--|--|--|---------------------------------------------------------------------------------------------------------------------------------------------|

| 2-dimethylaminoethanol                                                  |          |       |         |                        |                                                        |                                        |
|-------------------------------------------------------------------------|----------|-------|---------|------------------------|--------------------------------------------------------|----------------------------------------|
| Toxicity / effect                                                       | Endpoint | Value | Unit    | Organism               | Test method                                            | Notes                                  |
| Acute toxicity, by oral route:                                          | LD50     | 1182  | mg/kg   | Rat                    | OECD 401 (Acute Oral Toxicity)                         |                                        |
| Acute toxicity, by oral route:                                          | ATE      | 1182  | mg/kg   |                        |                                                        |                                        |
| Acute toxicity, by dermal route:                                        | ATE      | 1219  | mg/kg   |                        |                                                        |                                        |
| Acute toxicity, by dermal route:                                        | LD50     | 1219  | mg/kg   | Rabbit                 | OECD 402 (Acute Dermal Toxicity)                       |                                        |
| Acute toxicity, by inhalation:                                          | LC50     | 6     | mg/l/4h | Rat                    | OECD 403 (Acute Inhalation Toxicity)                   | Vapours, Acute Tox. 3                  |
| Acute toxicity, by inhalation:                                          | ATE      | 6     | mg/l/4h |                        |                                                        | Vapours                                |
| Acute toxicity, by inhalation:                                          | ATE      | 0,5   | mg/l/4h |                        |                                                        | Dusts or mist                          |
| Skin corrosion/irritation:                                              |          |       |         | Rabbit                 | OECD 404 (Acute Dermal Irritation/Corrosion)           | Skin Corr. 1B                          |
| Serious eye damage/irritation:                                          |          |       |         | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)              | Eye Dam. 1                             |
| Respiratory or skin sensitisation:                                      |          |       |         | Mouse                  | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | Not sensitizing (Analogous conclusion) |
| Germ cell mutagenicity:                                                 |          |       |         | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)             | Negative                               |
| Germ cell mutagenicity:                                                 |          |       |         | Mammalian              | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)  | Negative                               |
| Germ cell mutagenicity:                                                 |          |       |         | Mouse                  | OECD 474 (Mammalian Erythrocyte Micronucleus Test)     | Negative                               |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL    | 24    | mg/l    | Rat                    |                                                        |                                        |

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|           |  |  |  |  |  |                                                                                                       |
|-----------|--|--|--|--|--|-------------------------------------------------------------------------------------------------------|
| Symptoms: |  |  |  |  |  | breathing difficulties, respiratory distress, coughing, cramps, mucous membrane irritation, trembling |
|-----------|--|--|--|--|--|-------------------------------------------------------------------------------------------------------|

| Methanol                           |          |       |         |             |                                            |                                                                                                                                              |
|------------------------------------|----------|-------|---------|-------------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity / effect                  | Endpoint | Value | Unit    | Organism    | Test method                                | Notes                                                                                                                                        |
| Acute toxicity, by oral route:     | ATE      | 300   | mg/kg   |             |                                            |                                                                                                                                              |
| Acute toxicity, by oral route:     | LDLo     | 300   | mg/kg   | Human being |                                            | Experiences on persons.                                                                                                                      |
| Acute toxicity, by dermal route:   | ATE      | 300   | mg/kg   |             |                                            |                                                                                                                                              |
| Acute toxicity, by dermal route:   | LD50     | 17100 | mg/kg   | Rabbit      |                                            | Does not conform with EU classification.                                                                                                     |
| Acute toxicity, by inhalation:     | LC50     | 85    | mg/l/4h | Rat         |                                            | Not relevant for classification., Vapours                                                                                                    |
| Acute toxicity, by inhalation:     | ATE      | 3     | mg/l/4h |             |                                            | Vapours                                                                                                                                      |
| Acute toxicity, by inhalation:     | ATE      | 0,5   | mg/l/4h |             |                                            | Dusts or mist                                                                                                                                |
| Serious eye damage/irritation:     |          |       |         | Rabbit      | OECD 405 (Acute Eye Irritation/Corrosion)  | Mild irritant                                                                                                                                |
| Respiratory or skin sensitisation: |          |       |         | Guinea pig  | OECD 406 (Skin Sensitisation)              | Not sensitizing                                                                                                                              |
| Germ cell mutagenicity:            |          |       |         |             | OECD 471 (Bacterial Reverse Mutation Test) | Negative                                                                                                                                     |
| Symptoms:                          |          |       |         |             |                                            | abdominal pain, vomiting, headaches, gastrointestinal disturbances, drowsiness, visual disturbances, watering eyes, nausea, mental confusion |

| Formaldehyde                   |          |       |         |          |             |        |
|--------------------------------|----------|-------|---------|----------|-------------|--------|
| Toxicity / effect              | Endpoint | Value | Unit    | Organism | Test method | Notes  |
| Acute toxicity, by oral route: | ATE      | 500   | mg/kg   |          |             |        |
| Acute toxicity, by inhalation: | ATE      | 100   | ppmV/4h |          |             | Gasses |

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|------------------------------------|------|-------|---------|-------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity, by inhalation:     | LC50 | 0,578 | mg/l/4h | Rat         |                                              | Mist                                                                                                                                                                                                                              |
| Skin corrosion/irritation:         |      |       |         | Rabbit      | OECD 404 (Acute Dermal Irritation/Corrosion) | Corrosive, Skin Corr. 1B                                                                                                                                                                                                          |
| Serious eye damage/irritation:     |      |       |         | Rabbit      |                                              | Corrosive, Eye Dam. 1                                                                                                                                                                                                             |
| Respiratory or skin sensitisation: |      |       |         | Human being | (Patch-Test)                                 | Skin Sens. 1A                                                                                                                                                                                                                     |
| Carcinogenicity:                   |      |       |         |             |                                              | Positive                                                                                                                                                                                                                          |
| Symptoms:                          |      |       |         |             |                                              | acidosis, asthmatic symptoms, breathing difficulties, respiratory distress, drowsiness, unconsciousness, vomiting, heart/circulatory disorders, coughing, headaches, cramps, mucous membrane irritation, dizziness, watering eyes |

| 1,2-benzisothiazol-3(2H)-one       |          |       |         |                        |                                                        |                    |
|------------------------------------|----------|-------|---------|------------------------|--------------------------------------------------------|--------------------|
| Toxicity / effect                  | Endpoint | Value | Unit    | Organism               | Test method                                            | Notes              |
| Acute toxicity, by oral route:     | LD50     | 490   | mg/kg   | Rat                    | OECD 401 (Acute Oral Toxicity)                         |                    |
| Acute toxicity, by oral route:     | ATE      | 450   | mg/kg   |                        |                                                        |                    |
| Acute toxicity, by dermal route:   | LD50     | 4115  | mg/kg   | Rat                    |                                                        |                    |
| Acute toxicity, by inhalation:     | ATE      | 0,5   | mg/l/4h |                        |                                                        | Vapours            |
| Acute toxicity, by inhalation:     | ATE      | 0,21  | mg/l/4h |                        | OECD 403 (Acute Inhalation Toxicity)                   | Dusts or mist      |
| Skin corrosion/irritation:         |          |       |         | Rabbit                 |                                                        | Skin Irrit. 2      |
| Serious eye damage/irritation:     |          |       |         | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)              | Eye Dam. 1         |
| Respiratory or skin sensitisation: |          |       |         | Guinea pig             | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | Yes (skin contact) |
| Germ cell mutagenicity:            |          |       |         | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)             | Negative           |

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|                                                                     |       |     |         |       |                                                                                    |                                                            |
|---------------------------------------------------------------------|-------|-----|---------|-------|------------------------------------------------------------------------------------|------------------------------------------------------------|
| Germ cell mutagenicity:                                             |       |     |         | Mouse | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)                              | Negative                                                   |
| Germ cell mutagenicity:                                             |       |     |         | Rat   | OECD 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells In Vivo) | Negative                                                   |
| Germ cell mutagenicity:                                             |       |     |         | Mouse | OECD 474 (Mammalian Erythrocyte Micronucleus Test)                                 | Negative                                                   |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 150 | mg/kg/d | Rat   | OECD 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)                     |                                                            |
| Symptoms:                                                           |       |     |         |       |                                                                                    | vomiting, headaches, gastrointestinal disturbances, nausea |

## 11.2. Information on other hazards

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| Toxicity / effect                | Endpoint | Value | Unit | Organism | Test method | Notes                                                                 |
|----------------------------------|----------|-------|------|----------|-------------|-----------------------------------------------------------------------|
| Endocrine disrupting properties: |          |       |      |          |             | Does not apply to mixtures.                                           |
| Other information:               |          |       |      |          |             | No other relevant information available on adverse effects on health. |

## SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

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| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism | Test method | Notes                                                                 |
|------------------------------------------|----------|------|-------|------|----------|-------------|-----------------------------------------------------------------------|
| 12.1. Toxicity to fish:                  |          |      |       |      |          |             | n.d.a.                                                                |
| 12.1. Toxicity to daphnia:               |          |      |       |      |          |             | n.d.a.                                                                |
| 12.1. Toxicity to algae:                 |          |      |       |      |          |             | n.d.a.                                                                |
| 12.2. Persistence and degradability:     |          |      |       |      |          |             | n.d.a.                                                                |
| 12.3. Bioaccumulative potential:         |          |      |       |      |          |             | n.d.a.                                                                |
| 12.4. Mobility in soil:                  |          |      |       |      |          |             | n.d.a.                                                                |
| 12.5. Results of PBT and vPvB assessment |          |      |       |      |          |             | n.d.a.                                                                |
| 12.6. Endocrine disrupting properties:   |          |      |       |      |          |             | Does not apply to mixtures.                                           |
| 12.7. Other adverse effects:             |          |      |       |      |          |             | No information available on other adverse effects on the environment. |

| Propan-2-ol                          |           |      |       |      |                         |                                                                    |                        |
|--------------------------------------|-----------|------|-------|------|-------------------------|--------------------------------------------------------------------|------------------------|
| Toxicity / effect                    | Endpoint  | Time | Value | Unit | Organism                | Test method                                                        | Notes                  |
| 12.1. Toxicity to fish:              | LC50      | 96h  | 9640  | mg/l | Pimephales promelas     | OECD 203 (Fish, Acute Toxicity Test)                               |                        |
| 12.1. Toxicity to daphnia:           | EC50      | 48h  | 2285  | mg/l | Daphnia magna           |                                                                    |                        |
| 12.1. Toxicity to daphnia:           | EC50      | 16d  | 141   | mg/l | Daphnia magna           |                                                                    |                        |
| 12.1. Toxicity to algae:             | LOEC/LOEL | 8d   | 1000  | mg/l |                         |                                                                    | Microcystis aeruginosa |
| 12.1. Toxicity to algae:             | EC50      | 72h  | >100  | mg/l | Desmodesmus subspicatus |                                                                    |                        |
| 12.2. Persistence and degradability: |           | 21d  | 95    | %    |                         | OECD 301 E (Ready Biodegradability - Modified OECD Screening Test) | Readily biodegradable  |

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|------------------------------------------|---------|-----|-------|------|--------------------|----------------------------------------------------------------------------------|-------------------------------------|
| 12.2. Persistence and degradability:     |         |     | 99,9  | %    |                    | OECD 303 A (Simulation Test - Aerobic Sewage Treatment - Activated Sludge Units) | Readily biodegradable               |
| 12.3. Bioaccumulative potential:         | Log Pow |     | 0,05  |      |                    | OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method)          | Slight                              |
| 12.3. Bioaccumulative potential:         | BCF     |     | 3,2   |      |                    |                                                                                  | Low                                 |
| 12.4. Mobility in soil:                  | Koc     |     | 1,1   |      |                    |                                                                                  | Expert judgement                    |
| 12.5. Results of PBT and vPvB assessment |         |     |       |      |                    |                                                                                  | No PBT substance, No vPvB substance |
| Toxicity to bacteria:                    | EC50    |     | >1000 | mg/l | activated sludge   |                                                                                  |                                     |
| Toxicity to bacteria:                    | EC10    | 16h | 1050  | mg/l | Pseudomonas putida |                                                                                  |                                     |
| Other organisms:                         | IC50    | 3d  | 2104  | mg/l | Lactuca sativa     |                                                                                  |                                     |
| Other information:                       | ThOD    |     | 2,4   | g/g  |                    |                                                                                  |                                     |
| Other information:                       | BOD5    |     | 53    | %    |                    |                                                                                  |                                     |
| Other information:                       | COD     |     | 96    | %    |                    |                                                                                  | References                          |
| Other information:                       | COD     |     | 2,3   | g/g  |                    |                                                                                  |                                     |
| Other information:                       | BOD     |     | 1171  | mg/g |                    |                                                                                  |                                     |

| 2-methylpropan-1-ol                  |           |      |       |      |                         |                                                                    |                       |
|--------------------------------------|-----------|------|-------|------|-------------------------|--------------------------------------------------------------------|-----------------------|
| Toxicity / effect                    | Endpoint  | Time | Value | Unit | Organism                | Test method                                                        | Notes                 |
| 12.1. Toxicity to fish:              | LC50      | 96h  | 1430  | mg/l | Pimephales promelas     |                                                                    | References            |
| 12.1. Toxicity to daphnia:           | NOEC/NOEL | 21d  | 20    | mg/l | Daphnia magna           |                                                                    |                       |
| 12.1. Toxicity to daphnia:           | EC50      | 24h  | 583   | mg/l | Daphnia magna           | DIN 38412 T.11                                                     |                       |
| 12.1. Toxicity to algae:             | EC50      | 48h  | 1250  | mg/l | Scenedesmus subspicatus |                                                                    |                       |
| 12.2. Persistence and degradability: | DOC       | 28d  | 99    | %    |                         | OECD 301 E (Ready Biodegradability - Modified OECD Screening Test) | Readily biodegradable |
| 12.2. Persistence and degradability: |           | 28d  | 100   | %    |                         | OECD 302 B (Inherent Biodegradability - Zahn-Wellens/EMPA Test)    |                       |

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|                                      |         |     |       |      |  |                                                                  |                       |
|--------------------------------------|---------|-----|-------|------|--|------------------------------------------------------------------|-----------------------|
| 12.2. Persistence and degradability: |         | 28d | 70-80 | %    |  | OECD 301 D (Ready Biodegradability - Closed Bottle Test)         | Readily biodegradable |
| 12.3. Bioaccumulative potential:     | Log Pow |     | 1     |      |  | OECD 117 (Partition Coefficient (n-octanol/water) - HPLC method) | 25°C                  |
| 12.4. Mobility in soil:              | Log Koc |     | 0,47  |      |  |                                                                  | calculated value      |
| Other information:                   | COD     |     | 2600  | mg/g |  |                                                                  |                       |

## 2-dimethylaminoethanol

| Toxicity / effect                        | Endpoint | Time  | Value | Unit | Organism                | Test method                                                                              | Notes                               |
|------------------------------------------|----------|-------|-------|------|-------------------------|------------------------------------------------------------------------------------------|-------------------------------------|
| 12.1. Toxicity to fish:                  | LC50     | 96h   | 81    | mg/l | Pimephales promelas     | OECD 203 (Fish, Acute Toxicity Test)                                                     |                                     |
| 12.1. Toxicity to fish:                  | LC50     | 96h   | 146,6 | mg/l | Leuciscus idus          | DIN 38412 T.15                                                                           |                                     |
| 12.1. Toxicity to daphnia:               | EC50     | 48h   | 98,37 | mg/l | Daphnia magna           | OECD 202 (Daphnia sp. Acute Immobilisation Test)                                         |                                     |
| 12.1. Toxicity to algae:                 | EC50     | 72h   | 66,08 | mg/l | Scenedesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test)                                                  |                                     |
| 12.1. Toxicity to algae:                 | EC50     | 72h   | 34,5  | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test)                                                  |                                     |
| 12.2. Persistence and degradability:     |          | 28d   | >60   | %    |                         | OECD 301 C (Ready Biodegradability - Modified MITI Test (I))                             | Readily biodegradable               |
| 12.3. Bioaccumulative potential:         | Log Pow  |       | -0,55 |      |                         | OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method)                  | Not to be expected                  |
| 12.5. Results of PBT and vPvB assessment |          |       |       |      |                         |                                                                                          | No PBT substance, No vPvB substance |
| Toxicity to bacteria:                    | EC20     | 30min | >1000 | mg/l | activated sludge        | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) |                                     |

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## Methanol

| Toxicity / effect                    | Endpoint | Time | Value  | Unit | Organism                         | Test method                                              | Notes                 |
|--------------------------------------|----------|------|--------|------|----------------------------------|----------------------------------------------------------|-----------------------|
| 12.1. Toxicity to fish:              | LC50     | 96h  | 15400  | mg/l | Lepomis macrochirus              |                                                          |                       |
| 12.1. Toxicity to daphnia:           | EC50     | 48h  | >10000 | mg/l | Daphnia magna                    |                                                          |                       |
| 12.1. Toxicity to algae:             | ErC50    | 96h  | 22000  | mg/l | Pseudokirchneria lla subcapitata |                                                          |                       |
| 12.2. Persistence and degradability: |          | 28d  | 99     | %    |                                  | OECD 301 D (Ready Biodegradability - Closed Bottle Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential:     | BCF      |      | 28400  |      | Chlorella vulgaris               |                                                          |                       |

## Formaldehyde

| Toxicity / effect                        | Endpoint  | Time | Value | Unit | Organism                | Test method                                                                              | Notes                                     |
|------------------------------------------|-----------|------|-------|------|-------------------------|------------------------------------------------------------------------------------------|-------------------------------------------|
| 12.1. Toxicity to fish:                  | LC50      | 96h  | 41    | mg/l | Brachydanio rerio       |                                                                                          |                                           |
| 12.1. Toxicity to daphnia:               | EC50      | 48h  | 5,8   | mg/l | Daphnia magna           | OECD 202 (Daphnia sp. Acute Immobilisation Test)                                         |                                           |
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 21d  | 6,4   | mg/l | Daphnia magna           | OECD 211 (Daphnia magna Reproduction Test)                                               |                                           |
| 12.1. Toxicity to algae:                 | EC50      | 72h  | 4,89  | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test)                                                  |                                           |
| 12.2. Persistence and degradability:     | DOC       | 28d  | 99    | %    |                         | OECD 301 A (Ready Biodegradability - DOC Die-Away Test)                                  | Readily biodegradable                     |
| 12.3. Bioaccumulative potential:         | Log Pow   |      | 0,35  |      |                         |                                                                                          | Bioaccumulation is unlikely (LogPow < 1). |
| 12.5. Results of PBT and vPvB assessment |           |      |       |      |                         |                                                                                          | No PBT substance, No vPvB substance       |
| Toxicity to bacteria:                    | EC50      | 3h   | 19    | mg/l | activated sludge        | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) |                                           |

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## 1,2-benzisothiazol-3(2H)-one

| Toxicity / effect                    | Endpoint | Time | Value    | Unit | Organism                     | Test method                                           | Notes                |
|--------------------------------------|----------|------|----------|------|------------------------------|-------------------------------------------------------|----------------------|
| 12.1. Toxicity to fish:              | LC50     | 96h  | 0,8-2,18 | mg/l | Oncorhynchus mykiss          | OECD 203 (Fish, Acute Toxicity Test)                  |                      |
| 12.1. Toxicity to daphnia:           | EC50     | 48h  | 1,1-4,4  | mg/l | Daphnia magna                | OECD 202 (Daphnia sp. Acute Immobilisation Test)      |                      |
| 12.1. Toxicity to algae:             | ErC50    | 72h  | 0,11     | mg/l | Pseudokirchneria subcapitata | OECD 201 (Alga, Growth Inhibition Test)               |                      |
| 12.2. Persistence and degradability: |          |      |          |      |                              | OECD 303 (Simulation Test - Aerobic Sewage Treatment) | Hardly biodegradable |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

08 03 12 waste ink containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

#### For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

15 01 02 plastic packaging

## SECTION 14: Transport information

### General statements

#### Transport by road/by rail (ADR/RID)

14.1. UN number or ID number:

Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):

Not applicable

14.4. Packing group:

Not applicable

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14.5. Environmental hazards:

Not applicable

Tunnel restriction code:

Not applicable

Classification code:

Not applicable

LQ:

Not applicable

Transport category:

Not applicable

### Transport by sea (IMDG-code)

14.1. UN number or ID number:

Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):

Not applicable

14.4. Packing group:

Not applicable

14.5. Environmental hazards:

Not applicable

Marine Pollutant:

Not applicable

EmS:

Not applicable

### Transport by air (IATA)

14.1. UN number or ID number:

Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):

Not applicable

14.4. Packing group:

Not applicable

14.5. Environmental hazards:

Not applicable

### 14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

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

Non-dangerous material according to Transport Regulations.

## SECTION 15: Regulatory information

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

Observe restrictions:

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!

Regulation (EC) No 1907/2006, Annex XVII

Methanol

Formaldehyde

Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 2 - This product contains the substances listed below:

| Entry Nr | Dangerous substances | Notes to Annex I | Qualifying quantity (tonnes) for the application of - Lower-tier requirements | Qualifying quantity (tonnes) for the application of - Upper-tier requirements |
|----------|----------------------|------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| 22       | Methanol             |                  | 500                                                                           | 5000                                                                          |

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Treated goods as per Regulation (EU) No. 528/2012 must display specific information on the label.

Please note Article 58 paragraph (3) subparagraph 2 of Regulation (EU) No. 528/2012.

Approval of the biocidal active substance may mean that special conditions are required for marketing the treated goods.

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These are indicated in the approval of the active substance.

National requirements/regulations on safety and health protection must be applied when using work equipment.

## 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

Revised sections:

8, 9, 11, 12

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

## Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

| Classification in accordance with regulation<br>(EC) No. 1272/2008 (CLP) | Evaluation method used                             |
|--------------------------------------------------------------------------|----------------------------------------------------|
| Eye Irrit. 2, H319                                                       | Classification according to calculation procedure. |

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents.

H330 Fatal if inhaled.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H341 Suspected of causing genetic defects.

H370 Causes damage to organs.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H350 May cause cancer.

Eye Irrit. — Eye irritation

Flam. Liq. — Flammable liquid

STOT SE — Specific target organ toxicity - single exposure - narcotic effects

Skin Irrit. — Skin irritation

Eye Dam. — Serious eye damage

STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

Acute Tox. — Acute toxicity - inhalation

Acute Tox. — Acute toxicity - oral

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Acute Tox. — Acute toxicity - dermal

Skin Corr. — Skin corrosion

STOT SE — Specific target organ toxicity - single exposure

Skin Sens. — Skin sensitization

Muta. — Germ cell mutagenicity

Carc. — Carcinogenicity

Aquatic Acute — Hazardous to the aquatic environment - acute

Aquatic Chronic — Hazardous to the aquatic environment - chronic

## Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

## Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (= Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BSEF The International Bromine Council

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

EC European Community

ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

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Revision date / version: 01.07.2026 / 0005

Replacing version dated / version: 30.08.2023 / 0004

Valid from: 01.07.2026

PDF print date: 01.07.2026

PJ ADV TTK INK C Art.-Nr. 1338680000

PJ ADV TTK INK M Art.-Nr. 1338670000

PJ ADV TTK INK Y Art.-Nr. 1338650000

PJ ADV TTK INK K Art.-Nr. 1338690000

PJ ADV TTK INK SET Art.-Nr. 1338720000

PJ CON INK SET Art.-Nr. 2715600000

PJ CON INK C Art.-Nr. 2715610000

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ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ErCx, E<sub>μ</sub>Cx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)

etc. et cetera

EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number

gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

Koc Adsorption coefficient of organic carbon in the soil

Kow octanol-water partition coefficient

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database

IUPAC International Union for Pure Applied Chemistry

LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

Log Koc Logarithm of adsorption coefficient of organic carbon in the soil

Log Kow, Log Pow Logarithm of octanol-water partition coefficient

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

mg/kg bw mg/kg body weight

mg/kg bw/d, mg/kg bw/day mg/kg body weight/day

mg/kg dw mg/kg dry weight

mg/kg ww mg/kg wet weight

n.a. not applicable

n.av. not available

n.c. not checked

n.d.a. no data available

NIOSH National Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT Persistent, bioaccumulative and toxic

PE Polyethylene

PMT Persistent, mobile and toxic

PNEC Predicted No Effect Concentration

ppm parts per million

PVC Polyvinylchloride

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 6/7/8/9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

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PJ CON INK K Art.-Nr. 2715640000

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB Very persistent and very bioaccumulative

vPvM Very persistent and very mobile

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

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