

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

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## Body Protect black 500ml

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

#### 1.1. Product identifier

**Trade name/designation:**

Body Protect black 500ml

**Article No.:**

T117501

**UFI:**

UHHT-7597-QE1A-TXY1

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

**Use of the substance/mixture:**

Spray paint, Restricted to professional users.

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

**Supplier:**

**KANDO Service GmbH**

Hartleitnerstraße 3

4653 Eberstälzell

Austria

**Telephone:** +43 (0) 7241 213 79

**E-mail:** msds@kando.eu

#### 1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

Hazard classes and hazard categories	Hazard statements	Classification procedure
Aerosols ( <i>Aerosol 1</i> )	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	

#### 2.2. Label elements

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard pictograms:**



**GHS02**

Flame

**Signal word:** Danger

Hazard statements for physical hazards	
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.

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Supplemental hazard information: none

### Precautionary statements Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.

### Precautionary statements Storage

P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
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## 2.3. Other hazards

### Other adverse effects:

The product does not meet the PBT/vPvB criteria.

The product does not meet the criteria regarding its endocrine disrupting properties.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Description:

Aerosol

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 115-10-6 EC No.: 204-065-8 Index No.: 603-019-00-8 REACH No.: 01-2119472128-37	<b>dimethyl ether</b> Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) Danger <b>Acute Toxicity Estimate</b> ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, gases) 308.5 ppmV ATE (inhalation, dust/mist) 308.5 mg/L <b>Additional information:</b> Substance for which a Union workplace exposure limit value applies.	10 - < 25 Vol-%
CAS No.: 1330-20-7 EC No.: 215-535-7 REACH No.: 01-2119488216-32	<b>xylene</b> Acute Tox. 4 (H312, H332), Aquatic Chronic 3 (H412), Asp. Tox. 1 (H304), Eye Irrit. 2 (H319), Flam. Liq. 3 (H226), STOT RE 2 (H373), STOT SE 3 (H335), Skin Irrit. 2 (H315) Danger <b>Acute Toxicity Estimate</b> ATE (oral) 4,300 mg/kg ATE (dermal) 12,126 mg/kg ATE (inhalation, gases) 29,000 ppmV ATE (inhalation, dust/mist) 6,350 mg/L <b>Additional information:</b> Substance that poses a risk to health or the environment and meets the criteria set out in Regulation (EU) No. 2020/878.	5 - < 10 Vol-%
CAS No.: 100-41-4 EC No.: 202-849-4 Index No.: 601-023-00-4 REACH No.: 01-2119489370-35	<b>ethylbenzene</b> Acute Tox. 4 (H332), Aquatic Chronic 3 (H412), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), STOT RE 2 (H373) Danger <b>Acute Toxicity Estimate</b> ATE (oral) 3,500 mg/kg ATE (dermal) 15,354 mg/kg ATE (inhalation, gases) 17.2 ppmV ATE (inhalation, dust/mist) 17.2 mg/L <b>Additional information:</b> Substance that poses a risk to health or the environment and meets the criteria set out in Regulation (EU) No. 2020/878.	2.5 - < 5 Vol-%

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 123-86-4 EC No.: 204-658-1 Index No.: 607-025-00-1 REACH No.: 01-2119485493-29	<b>n-butyl acetate</b> Flam. Liq. 3 (H226), STOT SE 3 (H336) Warning EUH066 <b>Acute Toxicity Estimate</b> ATE (oral) 10,800 mg/kg ATE (dermal) > 17,600 mg/kg ATE (inhalation, gases) > 21 ppmV ATE (inhalation, vapour) > 21 mg/L <b>Additional information:</b> Substance that poses a risk to health or the environment and meets the criteria set out in Regulation (EU) No. 2020/878.	1 - < 2.5 Vol-%
CAS No.: 7664-38-2 EC No.: 231-633-2 Index No.: 015-011-00-6 REACH No.: 01-2119485924-24	<b>orthophosphoric acid</b> Acute Tox. 4 (H302), Eye Dam. 1 (H318), Met. Corr. 1 (H290), Skin Corr. 1B (H314) Danger <b>Specific concentration limit (SCL)</b> Skin Corr. 1B; H314: 25% ≤ C < 100% Skin Irrit. 2; H315: 10% ≤ C < 25% Eye Irrit. 2; H319: 10% ≤ C < 25% <b>Acute Toxicity Estimate</b> ATE (oral) 500 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, gases) > 5 ppmV ATE (inhalation, vapour) ≥ 50 mg/L ATE (inhalation, dust/mist) > 5 mg/L <b>Additional information:</b> Substance for which a Union workplace exposure limit value applies.	0.01 - < 0.1 Vol-%
CAS No.: 108-88-3 EC No.: 203-625-9 Index No.: 601-021-00-3 REACH No.: 01-2119471310-51	<b>toluene</b> Aquatic Chronic 3 (H412), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), Repr. 2 (H361d), STOT RE 2 (H373), STOT SE 3 (H336), Skin Irrit. 2 (H315) Danger <b>Acute Toxicity Estimate</b> ATE (oral) 5,580 mg/kg ATE (dermal) 12,124 mg/kg ATE (inhalation, gases) 28.1 ppmV <b>Additional information:</b> Substance for which a Union workplace exposure limit value applies.	< 0.01 Vol-%

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

Symptoms of poisoning may occur after contact, so if in doubt, consult a doctor in case of direct contact with the chemical product or persistence of indisposition, and present the safety data sheet of this product to the doctor.

#### Following inhalation:

This is a product that is not classified as hazardous by inhalation. However, it is recommended that in case of symptoms of poisoning, it is recommended to remove the person from the place of exposure, provide him/her with clean air and keep him/her at rest. position.

Consult a doctor if symptoms persist.

#### In case of skin contact:

Remove contaminated clothing and shoes, rinse the skin or, if necessary, shower the affected person with plenty of cold water and neutral soap. In severe cases, consult a doctor. If the mixture causes burns or frostbite, do not remove the clothing, as the injury caused may be aggravated if it sticks to the skin. If blisters form on the skin, do not puncture them as this increases the risk of infection.

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### After eye contact:

Flush eyes with plenty of water for at least 15 minutes. If the affected person wears contact lenses, remove them as far as they do not stick to the eyes, otherwise additional injuries may occur. In all cases, a doctor must be consulted as soon as possible after washing and the safety data sheet presented to him.

### Following ingestion:

Do NOT induce vomiting. If vomiting occurs, hold the head forward to avoid inhalation. Keep the person in a resting position. Rinse mouth and throat as they may have been affected by ingestion.

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

The immediate and delayed effects are given in sections 2 and 11.

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

not relevant

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Fire extinguishers (ABC-powder), Powder fire extinguisher/sand/carbon dioxide

#### Unsuitable extinguishing media:

Do not use a solid jet of water as it can scatter and spread the fire.

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

As a result of combustion or thermal decomposition, reactive sub-products are formed that can be highly toxic and therefore pose a high and can therefore pose a high health risk.

### 5.3. Advice for firefighters

Depending on the size of the fire, it may be necessary to use full protective clothing and autonomous breathing apparatus may be required. There should be a minimum stock of emergency facilities or equipment (fireproof blankets, portable first aid kit, ...) in accordance with Directive 89/654/EC. first-aid kit, ...) should be available in accordance with Directive 89/654/EC.

### 5.4. Additional information

Proceed in accordance with the internal emergency plan and the information sheets on what to do in the event of accidents and other emergencies. proceed. Keep away all sources of ignition. In case of fire, cool the storage containers and tanks of products that may catch fire or explode or explode or are at risk of BLEVE due to elevated temperatures. The leakage of products used in Avoid leakage of products used in firefighting into groundwater.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

Isolate leaks as far as this does not pose an additional risk to the persons involved. Evacuate area and keep away persons without protective equipment. In view of possible contact with the spilled product, the use of personal protective equipment is mandatory (see section 8). Above all, prevent the formation of flammable vapour-air mixtures, either by ventilation or by using a neutralising agent. Keep away all sources of ignition. Prevent electrostatic charges by connecting all conductor surfaces on which static electricity can build up, again keeping them earthed as a whole.

#### 6.1.2. For emergency responders

##### Personal protection equipment:

Wear protective equipment. Keep unprotected persons away. See section 8.

### 6.2. Environmental precautions

Do not allow to enter drains/surface water/ground water.

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

#### Other information:

Soak up spilled product using sand or neutral absorbent material and take to a safe place. Do not absorb with Do not absorb with sawdust or other flammable absorbents. For further information on disposal: see section 13.

### 6.4. Reference to other sections

For further information on personal protective equipment: see section 8.

For further information on disposal: see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

##### Advices on safe handling:

With regard to the handling of loads, comply with the legislation in force on the prevention of industrial risks. Maintain order and cleanliness and carry out disposal using safe methods (section 6).

##### Fire prevent measures:

Avoid evaporation of the product as it contains flammable substances and flammable vapour/air mixtures may form in the presence of ignition sources. Control ignition sources (mobile phones, sparks, ...) and decant slowly to avoid the generation of electrostatic charges. For information on conditions and materials to avoid, see section 10.

##### Environmental precautions:

It is recommended to have absorbent material in the immediate vicinity of the product (see section 6.3).

##### Advices on general occupational hygiene

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

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

#### Requirements for storage rooms and vessels:

minimum storage temperature: 5 °C

maximum storage temperature: 30 °C

Avoid sources of heat, radiation, static electricity and contact with food. Further information (see section 10.5).

**Storage class (TRGS 510, Germany):** 2B – Aerosol dispensers and lighters

### 7.3. Specific end use(s)

#### Recommendation:

With the exception of the instructions already listed, no special recommendations are required regarding the use of this product.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	<b>dimethyl ether</b> CAS No.: 115-10-6 EC No.: 204-065-8	① 1,000 ppm (1,910 mg/m <sup>3</sup> )
MAK (AT)	<b>dimethyl ether</b> CAS No.: 115-10-6 EC No.: 204-065-8	② 2,000 ppm (3,820 mg/m <sup>3</sup> ) ⑤ (max. 3x60 min./Schicht, Momentanwert)
IOELV (EU)	<b>dimethyl ether</b> CAS No.: 115-10-6 EC No.: 204-065-8	① 1,000 ppm (1,920 mg/m <sup>3</sup> )

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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT) from 25 Sept 2018	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	② 100 ppm (442 mg/m <sup>3</sup> ) ⑤ (max. 4x15 min./Schicht)
IOELV (EU)	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m <sup>3</sup> ) ② 100 ppm (442 mg/m <sup>3</sup> ) ⑤ (may be absorbed through the skin)
MAK (AT) from 25 Sept 2018	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m <sup>3</sup> )
MAK (AT)	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (440 mg/m <sup>3</sup> ) ⑤ (kann über die Haut aufgenommen werden) H
MAK (AT)	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	② 200 ppm (880 mg/m <sup>3</sup> ) ⑤ (max. 8x5 min./Schicht, Momentanwert, kann über die Haut aufgenommen werden) H
IOELV (EU)	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m <sup>3</sup> ) ② 200 ppm (884 mg/m <sup>3</sup> ) ⑤ (may be absorbed through the skin)
MAK (AT) from 10 Apr 2021	<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	① 50 ppm (241 mg/m <sup>3</sup> ) ② 100 ppm (480 mg/m <sup>3</sup> )
IOELV (EU) from 20 Nov 2019	<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	① 50 ppm (241 mg/m <sup>3</sup> ) ② 150 ppm (723 mg/m <sup>3</sup> )
MAK (AT)	<b>orthophosphoric acid</b> CAS No.: 7664-38-2 EC No.: 231-633-2	② 2 mg/m <sup>3</sup> ⑤ (max. 4x15 min./Schicht)
IOELV (EU)	<b>orthophosphoric acid</b> CAS No.: 7664-38-2 EC No.: 231-633-2	① 1 mg/m <sup>3</sup> ② 2 mg/m <sup>3</sup>
MAK (AT)	<b>orthophosphoric acid</b> CAS No.: 7664-38-2 EC No.: 231-633-2	① 1 mg/m <sup>3</sup>
MAK (AT)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	② 100 ppm (380 mg/m <sup>3</sup> ) ⑤ (max. 4x15 min./Schicht, kann über die Haut aufgenommen werden) d, H
IOELV (EU)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (192 mg/m <sup>3</sup> ) ② 100 ppm (384 mg/m <sup>3</sup> ) ⑤ (may be absorbed through the skin)
MAK (AT)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (190 mg/m <sup>3</sup> ) ⑤ (kann über die Haut aufgenommen werden) d, H

### 8.1.2. Biological limit values

No data available

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### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
<b>dimethyl ether</b> CAS No.: 115-10-6 EC No.: 204-065-8	1,894 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>dimethyl ether</b> CAS No.: 115-10-6 EC No.: 204-065-8	471 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects
<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	221 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	65.3 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects
<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	442 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, systemic effects
<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	260 mg/m <sup>3</sup>	① DNEL Consumer ② Acute - inhalation, systemic effects
<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	221 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, local effects
<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	65.3 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, local effects
<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	442 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, local effects
<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	260 mg/m <sup>3</sup>	① DNEL Consumer ② Acute - inhalation, local effects
<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	212 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	125 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	12.5 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	77 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	15 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects
<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	293 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, local effects
<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	180 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	1.6 mg/kg	① DNEL Consumer ② Long-term - oral, systemic effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	300 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects



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Substance name	DNEL value	① DNEL type ② Exposure route
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	35.7 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	600 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, systemic effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	859.7 mg/m <sup>3</sup>	① DNEL Consumer ② Acute - inhalation, systemic effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	300 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, local effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	35.7 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, local effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	600 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, local effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	300 mg/m <sup>3</sup>	① DNEL Consumer ② Acute - inhalation, local effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	11 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	5 mg/kg bw/ day	① DNEL Consumer ② Long-term - dermal, systemic effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	11 mg/kg bw/ day	① DNEL worker ② Acute - dermal, systemic effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	5 mg/kg bw/ day	① DNEL Consumer ② Acute - dermal, systemic effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	2 mg/kg bw/ day	① DNEL Consumer ② Long-term - oral, systemic effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	2 mg/kg bw/ day	① DNEL Consumer ② Acute - oral, systemic effects

Substance name	PNEC Value	① PNEC type
<b>dimethyl ether</b> CAS No.: 115-10-6 EC No.: 204-065-8	0.155 mg/L	① PNEC aquatic, freshwater
<b>dimethyl ether</b> CAS No.: 115-10-6 EC No.: 204-065-8	0.016 mg/L	① PNEC aquatic, marine water
<b>dimethyl ether</b> CAS No.: 115-10-6 EC No.: 204-065-8	0.681 mg/kg	① PNEC sediment, freshwater
<b>dimethyl ether</b> CAS No.: 115-10-6 EC No.: 204-065-8	0.069 mg/kg	① PNEC sediment, marine water
<b>dimethyl ether</b> CAS No.: 115-10-6 EC No.: 204-065-8	0.045 mg/kg	① PNEC soil
<b>dimethyl ether</b> CAS No.: 115-10-6 EC No.: 204-065-8	1.549 mg/L	① PNEC aquatic, intermittent release



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Substance name	PNEC Value	① PNEC type
<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	0.1 mg/L	① PNEC aquatic, freshwater
<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	0.01 mg/L	① PNEC aquatic, marine water
<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	13.7 mg/kg	① PNEC sediment, freshwater
<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	1.37 mg/kg	① PNEC sediment, marine water
<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	2.68 mg/kg	① PNEC soil
<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	0.1 mg/L	① PNEC aquatic, intermittent release
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	0.18 mg/L	① PNEC aquatic, freshwater
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	0.015 mg/L	① PNEC aquatic, marine water
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	35.6 mg/L	① PNEC sewage treatment plant
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	0.981 mg/L	① PNEC sediment, freshwater
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	0.0981 mg/L	① PNEC sediment, marine water
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	0.0903 mg/kg	① PNEC soil
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	0.36	① PNEC aquatic, intermittent release

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

No data available

### 8.2.2. Personal protection equipment



#### Eye/face protection:

Wear eye protection/face protection. Panorama safety goggles against splashes and / or ejection; EN 166:2002 EN ISO 4007; Clean daily and disinfect at regular intervals according to the manufacturer's instructions. Use when there is a risk of splashing is recommended.

#### Skin protection:

Hand protection:

Disposable gloves, Suitable material: Linear low density polyethylene (LLPDE), Breakthrough time: >480 min, Thickness of the glove material: 0,062 mm, EN ISO 21420

Replace gloves at any sign of damage.

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As the product is a mixture of different materials, the resistance of the glove material cannot be calculated in advance and must be verified shortly before use.

### Body protection:

Disposable protective clothing against chemical hazards, antistatic and fire retardant; EN 1149-1:2006 EN 1149-2:1997 EN 1149-3:2004 EN 168:2002 EN ISO 14116:2015 EN 1149-5:2018; Limited protection against flames.

Safety footwear against chemical hazards, with antistatic and heat-resistant properties; EN ISO 13287:2020 EN ISO 20345; Replace boots at any sign of damage.

### Respiratory protection:

Self-filtering mask for particles; EN 149:2001+A1; Replace if increased breathing resistance is noticed.

### Other protection measures:

As a precautionary measure, the use of basic individual protective equipment with the appropriate CE marking is recommended. For further information on individual protective equipment (storage, use, cleaning, maintenance, protection class...), please refer to the information brochure of the respective manufacturer. The indications given in this point refer to the pure product. The protective measures for the diluted product may differ depending on the degree of dilution, use, application method, etc. To determine the obligation to install emergency showers and/or eyewash devices in the warehouses, the respective applicable regulations regarding the storage of chemical products must be taken into account. For more information, see sections 7.1 and 7.2.

Emergency shower ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011

Eye wash; DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

### 8.2.3. Environmental exposure controls

Taking into account Community legislation on environmental protection, it is recommended to avoid leakage of both the product and its packaging into the environment. For further information, see section 7.1.

## SECTION 9: Physical and chemical properties

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

#### Appearance

**Form:** Aerosol

**Colour:** black

**Odour:** characteristic

**flammability:** No data available

#### Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	No data available		
Initial boiling point and boiling range	-25 - 4,200 °C		② (Propellant gas)
Evaporation rate	No data available		
Upper/lower flammability or explosive limits	No data available		
Vapour pressure	< 300,000 Pa	50 °C	② (300 kPa)
Density	1,159 kg/m <sup>3</sup>	20 °C	
Relative density	1.159	20 °C	
Bulk density	not applicable		
Water solubility	No data available		

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions are to be expected if the technical instructions for storage of chemicals are observed.

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See section 7 of the safety data sheet.

### 10.2. Chemical stability

Chemically stable under conditions of storage, handling and use.

### 10.3. Possibility of hazardous reactions

No hazardous reactions expected under normal conditions.

### 10.4. Conditions to avoid

Heating may cause a fire or explosion.

Avoid high temperatures or direct sunlight.

### 10.5. Incompatible materials

Avoid strong acids, alkalis and bases.

Avoid direct exposure to materials that promote combustion.

### 10.6. Hazardous decomposition products

See sections 10.3, 10.4 and 10.5 for specific degradation products. Depending on the degradation conditions, complex mixtures of chemical substances may be released during degradation: Carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

## SECTION 11: Toxicological information

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

<b>dimethyl ether</b>	CAS No.: 115-10-6	EC No.: 204-065-8
<b>LD<sub>50</sub> oral:</b> >2,000 mg/kg		
<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg		
<b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> 308.5 ppmV 4 h (Rat)		
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> 308.5 mg/L 4 h (Rat)		
<b>xylene</b>	CAS No.: 1330-20-7	EC No.: 215-535-7
<b>LD<sub>50</sub> oral:</b> 4,300 mg/kg (Rat)		
<b>LD<sub>50</sub> dermal:</b> 12,126 mg/kg (Rabbit)		
<b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> 29,000 ppmV 4 h (Rat)		
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> 6,350 mg/L 4 h (Rat)		
<b>ethylbenzene</b>	CAS No.: 100-41-4	EC No.: 202-849-4
<b>LD<sub>50</sub> oral:</b> 3,500 mg/kg (Rat)		
<b>LD<sub>50</sub> dermal:</b> 15,354 mg/kg (Rabbit)		
<b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> 17.2 ppmV 4 h (Rat)		
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> 17.2 mg/L (Rat)		
<b>n-butyl acetate</b>	CAS No.: 123-86-4	EC No.: 204-658-1
<b>LD<sub>50</sub> oral:</b> 10,800 mg/kg (Rat) OECD 401		
<b>LD<sub>50</sub> dermal:</b> >17,600 mg/kg (Rabbit)		
<b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> >21 ppmV 4 h (Rat)		
<b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> >21 mg/L 4 h (Rat)		
<b>orthophosphoric acid</b>	CAS No.: 7664-38-2	EC No.: 231-633-2
<b>ATE oral:</b> 500 mg/kg		
<b>LD<sub>50</sub> oral:</b> 500 mg/kg (Ratte)		
<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Ratte)		
<b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> >5 ppmV		
<b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> ≥50 mg/L 4 h (Rat)		
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >5 mg/L (Ratte)		

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<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9
<b>LD<sub>50</sub> oral:</b> 5,580 mg/kg (Ratte)
<b>LD<sub>50</sub> dermal:</b> 12,124 mg/kg (Ratte)
<b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> 28.1 ppmV 4 h (Ratte)

### Acute oral toxicity:

Based on available data, the classification criteria are not met. However, it contains substances that are classified as hazardous if inhaled.

### Acute dermal toxicity:

Based on available data, the classification criteria are not met. However, it contains substances that are classified as hazardous with regard to this effect.

### Acute inhalation toxicity:

Based on available data, the classification criteria are not met. However, it contains substances that are classified as hazardous with regard to this effect.

### Skin corrosion/irritation:

Based on available data, the classification criteria are not met. However, it contains substances that are classified as hazardous with regard to this effect.

### Serious eye damage/irritation:

Based on available data, the classification criteria are not met. However, it contains substances that are classified as hazardous with regard to this effect.

### Respiratory or skin sensitisation:

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

### Germ cell mutagenicity:

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

### Carcinogenicity:

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

### Reproductive toxicity:

Based on available data, the classification criteria are not met. However, it contains substances that are classified as hazardous with regard to this effect.

### STOT-single exposure:

Based on available data, the classification criteria are not met. However, it contains substances that are classified as hazardous if inhaled.

### STOT-repeated exposure:

Based on available data, the classification criteria are not met. However, it contains substances that are classified as hazardous with regard to this effect.

### Aspiration hazard:

Based on available data, the classification criteria are not met. However, it contains substances that are classified as hazardous with regard to this effect.

### Additional information:

For further information on composition: see section 3.

## 11.2. Information on other hazards

### Endocrine disrupting properties:

The product does not meet the criteria regarding its endocrine disrupting properties.

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>dimethyl ether</b> CAS No.: 115-10-6 EC No.: 204-065-8
<b>LC<sub>50</sub>:</b> >4,000 mg/L 2 d (crustaceans, Daphnia magna)
<b>LC<sub>50</sub>:</b> >4,000 mg/L 4 d (fish)
<b>EC<sub>50</sub>:</b> 155 mg/L 4 d (Algae/water plant)
<b>LC<sub>50</sub>:</b> >4,000 mg/L 2 d (daphnia magna)
<b>EC<sub>50</sub>:</b> 155 mg/L 4 d (Alge)

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**xylene** CAS No.: 1330-20-7 EC No.: 215-535-7

**LC<sub>50</sub>**: 8.9 - 16.4 mg/L 4 d (fish, Pimephales promelas)

**EC<sub>50</sub>**: 3.2 - 9.5 mg/L 2 d (crustaceans, Daphnia magna)

**LC<sub>50</sub>**: 13.5 mg/L 4 d (fish)

**EC<sub>50</sub>**: 7.4 mg/L 2 d (daphnia magna)

**LC<sub>50</sub>**: >10 - 100 mg/L 4 d (fish)

**EC<sub>50</sub>**: >10 - 100 mg/L 2 d (crustaceans)

**NOEC**: 1.3 mg/L (fish, Oncorhynchus mykiss)

**NOEC**: 1.17 mg/L (crustaceans, Ceriodaphnia dubia)

**ethylbenzene** CAS No.: 100-41-4 EC No.: 202-849-4

**LC<sub>50</sub>**: 42.3 mg/L 4 d (fish, Pimephales promelas)

**EC<sub>50</sub>**: 75 mg/L 2 d (crustaceans, Daphnia magna)

**EC<sub>50</sub>**: 63 mg/L (Algae/water plant, Chlorella vulgaris)

**NOEC**: 0.96 mg/L (crustaceans, Ceriodaphnia dubia)

**EC<sub>50</sub>**: 63 mg/L (Algae/water plant, Chlorella vulgaris)

**n-butyl acetate** CAS No.: 123-86-4 EC No.: 204-658-1

**LC<sub>50</sub>**: 18 mg/L 4 d (fish, Pimephales promelas)

**EC<sub>50</sub>**: 44 mg/L 2 d (crustaceans, Daphnia magna)

**EC<sub>50</sub>**: 675 mg/L 3 d (Algae/water plant, Scenedesmus subspicatus)

**NOEC**: 23.2 mg/L (crustaceans, Daphnia magna)

**LC<sub>50</sub>**: 18 mg/L 4 d (fish)

**EC<sub>50</sub>**: 44 mg/L 2 d (Daphnia magna)

**orthophosphoric acid** CAS No.: 7664-38-2 EC No.: 231-633-2

**LC<sub>50</sub>**: 138 mg/L 4 d (fish, Gambusia affinis (Moskitofisch))

**EC<sub>50</sub>**: 100 mg/L 2 d (crustaceans, Daphnia magna (Großer Wasserfloh))

**EC<sub>50</sub>**: 100 mg/L 3 d (crustaceans, Daphnia)

**NOEC**: 100 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)

**NOEC**: 56 mg/L 2 d (crustaceans, Daphnia)

**ErC<sub>50</sub>**: >100 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)

**LC<sub>50</sub>**: 138 mg/L 4 d (fish, Gambusia affinis)

**toluene** CAS No.: 108-88-3 EC No.: 203-625-9

**LC<sub>50</sub>**: 13 mg/L 4 d (fish, Carassius auratus)

**EC<sub>50</sub>**: 11.5 mg/L (crustaceans, Daphnia magna)

## 12.2. Persistence and degradability

**n-butyl acetate** CAS No.: 123-86-4 EC No.: 204-658-1

**Biodegradation**: Yes, rapidly

## 12.3. Bioaccumulative potential

**xylene** CAS No.: 1330-20-7 EC No.: 215-535-7

**Log K<sub>OW</sub>**: 2.77

**ethylbenzene** CAS No.: 100-41-4 EC No.: 202-849-4

**Log K<sub>OW</sub>**: 3.15

**n-butyl acetate** CAS No.: 123-86-4 EC No.: 204-658-1

**Log K<sub>OW</sub>**: 2.3

**Bioconcentration factor (BCF)**: 15.3

**toluene** CAS No.: 108-88-3 EC No.: 203-625-9

**Log K<sub>OW</sub>**: 2.73

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### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

<b>dimethyl ether</b>	CAS No.: 115-10-6	EC No.: 204-065-8
<b>Results of PBT and vPvB assessment: —</b>		
<b>xylene</b>	CAS No.: 1330-20-7	EC No.: 215-535-7
<b>Results of PBT and vPvB assessment: —</b>		
<b>ethylbenzene</b>	CAS No.: 100-41-4	EC No.: 202-849-4
<b>Results of PBT and vPvB assessment: —</b>		
<b>n-butyl acetate</b>	CAS No.: 123-86-4	EC No.: 204-658-1
<b>Results of PBT and vPvB assessment: —</b>		
<b>orthophosphoric acid</b>	CAS No.: 7664-38-2	EC No.: 231-633-2
<b>Results of PBT and vPvB assessment: —</b>		
<b>toluene</b>	CAS No.: 108-88-3	EC No.: 203-625-9
<b>Results of PBT and vPvB assessment: —</b>		

The product does not meet the PBT/vPvB criteria.

### 12.6. Endocrine disrupting properties

The product does not meet the criteria regarding its endocrine disrupting properties.

### 12.7. Other adverse effects

water hazard class 2: obviously hazardous to water

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Dispose of by the authorised waste manager in accordance with the recovery and disposal operations set out in Annex 1 and Annex 2 (Directive 2008/98/EC). According to codes 15 01 (2014/955/EC), if the container has been in direct contact with the product, treat it in the same way as the product itself, otherwise as if there were no hazardous residues. Do not allow to enter drains. See section 6.2.

#### 13.1.1. Product/Packaging disposal

#### Waste codes/waste designations according to EWC/AVV

##### Waste code product

16 05 04 *	Gases in pressure containers (including halons) containing hazardous substances
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\*: Evidence for disposal must be provided.

#### Directive 2008/98/EC (Waste Framework Directive)

HP 3	Flammable
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#### Waste treatment options

#### Other disposal recommendations:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH), the Community or national provisions regarding waste recovery shall be complied with. Community legislation: Directive 2008/98/EC, 2014/955/EC, Regulation (EU) No 1357/2014. National regulations: Act on the Reorganisation of the Recycling and Waste Management Law. Of 24 February 2012.

## SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN number or ID number</b>			
UN 1950	UN 1950	UN 1950	UN 1950
<b>14.2. UN proper shipping name</b>			
AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.3. Transport hazard class(es)</b>			
 2.1	 2.1	 2.1	 2.1
<b>14.4. Packing group</b>			
		-	
<b>14.5. Environmental hazards</b>			
No	No data available	No	No
<b>14.6. Special precautions for user</b>			
<b>Special Provisions:</b> 190, 327, 344, 625 <b>Limited quantity (LQ):</b> 1 L <b>Classification code:</b> - <b>Tunnel restriction code:</b> (D)	No data available	<b>Special Provisions:</b> 63, 959, 190, 277, 327, 344 <b>Limited quantity (LQ):</b> 1 L <b>EmS-No.:</b> F-D, S-U	No data available

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

not relevant

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

##### Restrictions on use:

Substances for which authorisation in Regulation (CE) 1907/2006 (REACH) is pending: Not relevant.  
Substances included in REACH Annex XIV (authorisation list) and expiry date: Not relevant. Regulation (EC) 1005/2009 on ozone depleting substances Not relevant. Article 95, REGULATION (EU) No 528/2012: Not relevant. REGULATION (EU) No 649/2012 on the export and import of dangerous chemical substances: Not relevant.

Seveso category 3: P3a FLAMMABLE AEROSOLS

Restrictions on the distribution and use of certain substances and hazardous mixtures (Annex XVII REACH, etc...): Contains di-"isononyl" phthalate. (1) Shall not be used as substances or in mixtures in concentrations greater than 0,1 % by weight of the plasticized material in toys and childcare articles which can be placed in the mouth by children. (2) Such toys and childcare articles containing these phthalates in concentrations greater than 0.1% by weight of the plasticized material shall not be placed on the market. (4) For the purposes of this entry, the term "childcare article" means any article intended to facilitate sleep, relaxation, hygiene, feeding and sucking of children.

Shall not be used:

- in decorative articles intended to produce light or color effects (by phase change), e.g. in mood lamps and ashtrays;
- in joke games;
- in games for one or more participants or in products intended for use as such, including for decoration.

Specific injunctions concerning personal and environmental protection: It is recommended that the information in this safety data sheet be used as input to data collected in a risk assessment of local conditions in order to take the necessary measures to prevent hazards for the management, use, storage and disposal of this product.

##### Other regulations (EU):

Hazard categories:

- P3a 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids



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Named dangerous substances:

- Liquefied flammable gases, Category 1 or 2 (including liquefied petroleum gas) and natural gas

### 15.1.2. National regulations

No data available

### 15.2. Chemical Safety Assessment

No data available

## SECTION 16: Other information

### 16.1. Indication of changes

No data available

### 16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC <sub>50</sub>	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
KG	body weight
LC <sub>50</sub>	Lethal (fatal) Concentration 50%
LD <sub>50</sub>	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OEL	Threshold Limit Value
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SCL	Specific concentration limit
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations

### 16.3. Key literature references and sources for data

No data available

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Aerosols ( <i>Aerosol 1</i> )	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	

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### 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Supplemental hazard information	
EUH066	Repeated exposure may cause skin dryness or cracking.

### 16.6. Training advice

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

### 16.7. Additional information

No data available