## PUR Foam Bond 750ml

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

### 1.1. Product identifier

**Trade name/designation:**

PUR Foam Bond 750ml

**Article No.:**
T670601

**UFI:**
87A9-JDVD-R50F-F17Y

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

**Use of the substance/mixture:**
Foam

* 

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

**Supplier:**


**KANDO Service GmbH**
Hartleitnerstraße 3
4653 Eberstalzell
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 |
|---|---|---|
| aerosol dispensers and lighters *(Aerosol 1)* | H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated. | |
| Acute toxicity (oral) *(Acute Tox. 4)* | H302: Harmful if swallowed. | |
| Skin corrosion/irritation *(Skin Irrit. 2)* | H315: Causes skin irritation. | |
| Respiratory or skin sensitisation *(Skin Sens. 1)* | H317: May cause an allergic skin reaction. | |
| Serious eye damage/eye irritation *(Eye Irrit. 2)* | H319: Causes serious eye irritation. | |
| Respiratory or skin sensitisation *(Resp. Sens. 1)* | H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. | |
| STOT-single exposure *(STOT SE 3)* | H335: May cause respiratory irritation. | |
| Carcinogenicity *(Carc. 2)* | H351: Suspected of causing cancer. | |
| STOT-repeated exposure *(STOT RE 2)* | H373: May cause damage to organs through prolonged or repeated exposure. | |

### 2.2. Label elements

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

**Hazard pictograms:**



**GHS02**
Flame



**GHS07**
Exclamation mark



**GHS08**
Health hazard

**Signal word:** Danger

**Hazard components for labelling:**
4,4'-Methylenediphenyl diisocyanate, isomers and homologues; Reaction products of phosphoryl trichloride and 2-methyloxirane; Glycerin, propoxylated

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

| **Hazard statements for health hazards** | |
|---|---|
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H351 | Suspected of causing cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

| **Supplemental hazard information** | |
|---|---|
| EUH204 | Contains isocyanates. May produce an allergic reaction. |

| **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. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear. |

| **Precautionary statements Response** | |
|---|---|
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

| **Precautionary statements Storage** | |
|---|---|
| P410 + P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |

| **Precautionary statements Disposal** | |
|---|---|
| P501 | Dispose of contents/container to an appropriate recycling or disposal facility. |

**Additional information:**
As from 24 August 2023 adequate training is required before industrial or professional use.
Persons already sensitised to diisocyanates may develop allergic reactions when using this product.
Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.
This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

## 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

**Hazardous ingredients / Hazardous impurities / Stabilisers:**

| Product identifiers | Substance name<br>Classification according to Regulation (EC) No 1272/2008 [CLP] | Concentration |
|---|---|---|
| CAS No.: 9016-87-9<br>EC No.: 618-498-9 | **4,4'-Methylenediphenyl diisocyanate, isomers and homologues**<br>Acute Tox. 4 (H332), Carc. 2 (H351), Eye Irrit. 2 (H319),<br>Resp. Sens. 1 (H334), STOT RE 2 (H373), STOT SE 3 (H335),<br>Skin Irrit. 2 (H315), Skin Sens. 1 (H317)<br>Danger<br>**Specific concentration limit (SCL)**<br>Skin Irrit. 2; H315: C ≥ 5%<br>Eye Irrit. 2; H319: C ≥ 5%<br>Resp. Sens. 1; H334: C ≥ 0.1%<br>STOT SE 3; H335: C ≥ 5%<br>**Acute Toxicity Estimate**<br>ATE (inhalation, vapour) 11 mg/L<br>ATE (inhalation, dust/mist) 1.5 mg/L | 30 – < 50<br>Vol-% |
| CAS No.: 75-28-5<br>EC No.: 807-935-0<br>REACH No.:<br>01-2119486772-26 | **Reaction products of phosphoryl trichloride and 2-methyloxirane**<br>Flam. Gas 1A (H220), Press. Gas (Comp.) (H280)<br>Danger<br>**Acute Toxicity Estimate**<br>ATE (oral) 632 mg/kg<br>ATE (dermal) > 2,000 mg/kg<br>ATE (inhalation, dust/mist) > 20 mg/L | 10 – < 20<br>Vol-% |
| CAS No.: 25791-96-2<br>EC No.: 500-044-5<br>REACH No.:<br>01-2119958814-25 | **Glycerin, propoxylated**<br>Acute Tox. 4 (H302)<br>Warning<br>**Acute Toxicity Estimate**<br>ATE (oral) 500 mg/kg<br>ATE (dermal) > 2,000 mg/kg<br>ATE (inhalation, dust/mist) > 20 mg/L | 10 – < 20<br>Vol-% |
| CAS No.: 115-10-6<br>EC No.: 204-065-8<br>Index No.: 603-019-00-8<br>REACH No.:<br>01-2119472128-37 | **dimethyl ether**<br>Flam. Gas 1A (H220), Press. Gas (Comp.) (H280)<br>Danger<br>**Acute Toxicity Estimate**<br>ATE (oral) > 2,000 mg/kg<br>ATE (dermal) > 2,000 mg/kg<br>ATE (inhalation, gases) 308.5 ppmV<br>ATE (inhalation, dust/mist) 308.5 mg/L | 2.5 – < 10<br>Vol-% |
| CAS No.: 75-28-5<br>EC No.: 200-857-2<br>REACH No.:<br>01-2119485395-27 | **isobutane**<br>Flam. Gas 1A (H220), Press. Gas (Comp.) (H280)<br>Danger<br>**Acute Toxicity Estimate**<br>ATE (oral) > 15,000 mg/kg<br>ATE (dermal) > 5,000 mg/kg<br>ATE (inhalation, vapour) > 4,951 mg/L | 2.5 – < 10<br>Vol-% |

| Product identifiers | Substance name<br>Classification according to Regulation (EC) No 1272/2008 [CLP] | Concentration |
|---|---|---|
| CAS No.: 74-98-6<br>EC No.: 200-827-9<br>Index No.: 601-003-00-5<br>REACH No.:<br>01-2119486944-21 | **propane**<br>Flam. Gas 1A (H220), Press. Gas (Comp.) (H280)<br> Danger<br>**Acute Toxicity Estimate**<br>ATE (oral) 5,840 mg/kg<br>ATE (dermal) 13,900 mg/kg<br>ATE (inhalation, gases) > 25 ppmV<br>ATE (inhalation, vapour) ≥ 50 mg/L | 1 – < 2.5<br>Vol-% |
| CAS No.: 107-21-1<br>EC No.: 203-473-3<br>REACH No.:<br>01-2119456816-28 | **ethane-1,2-diol**<br>Acute Tox. 4 (H302), STOT RE 2 (H373)<br> Warning<br>**Acute Toxicity Estimate**<br>ATE (oral) > 7,712 mg/kg<br>ATE (dermal) 3,500 mg/kg | 0.01 – < 0.1<br>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:**
Remove the victim from the exposure site, provide him/her with clean air and keep him/her in a resting position. In severe cases such as cardio-respiratory arrest, apply artificial respiration techniques (mouth-to-mouth resuscitation, cardiac massage, oxygen supply, etc.). Medical advice should be sought immediately.

**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.

**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:**
ABC-powder, Foam, Carbon dioxide (CO2)

**Unsuitable extinguishing media:**
Water jet

### 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. In view of possible In view of possible contact with the spilled product, the use of personal protective equipment is mandatory (see section 8). Evacuate area and keep away persons without protective equipment.

### 6.1.2. For emergency responders

**Personal protection equipment:**

See section 8.

### 6.2. Environmental precautions

Prevent leakage into the water at all costs. Store absorbed product appropriately in hermetically sealable containers. In case of exposure to the general population or the environment, inform the competent authorities.

### 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. Disposal: See section 13.

### 6.4. Reference to other sections

See section 7 for further information on safe handling.
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:**

Comply with the legislation in force on the prevention of industrial risks. Keep containers hermetically closed. Keep spilled substances and residues under control and dispose of by safe methods (section 6). Avoid leakage from the container. Places where hazardous products are handled must be kept tidy and clean.

**Fire prevent measures:**

Product is not flammable under normal conditions of storage, handling and use. Slow decanting is recommended to avoid the build-up of electrostatic charges that could affect flammable products.

**Environmental precautions:**

Due to the hazardous nature of this product to the environment, it is recommended that it be handled within an area that has contamination control barriers in the event of a spill and that absorbent material be stored nearby.

### 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
**Technical measures and storage conditions:**
Store in a cool dry place.

**Requirements for storage rooms and vessels:**
Avoid sources of heat, radiation, static electricity and contact with food. Further information (see section 10.5).

### 7.3. Specific end use(s)
**Recommendation:**
No further relevant information available.

## SECTION 8: Exposure controls/personal protection

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### 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<br>② Short-term occupational exposure limit value<br>③ Instantaneous value<br>④ Monitoring and observation processes<br>⑤ Remark |
|---|---|---|
| MAK (AT) | **Reaction products of phosphoryl trichloride and 2-methyloxirane**<br>CAS No.: 75-28-5<br>EC No.: 807-935-0 | ② 1,600 ppm (3,800 mg/m³)<br>⑤ (max. 3x60 min./SchichtMomentanwert) |
| MAK (AT) | **Reaction products of phosphoryl trichloride and 2-methyloxirane**<br>CAS No.: 75-28-5<br>EC No.: 807-935-0 | ① 800 ppm (1,900 mg/m³) |
| MAK (AT) | **dimethyl ether**<br>CAS No.: 115-10-6<br>EC No.: 204-065-8 | ① 1,000 ppm (1,910 mg/m³) |
| MAK (AT) | **dimethyl ether**<br>CAS No.: 115-10-6<br>EC No.: 204-065-8 | ② 2,000 ppm (3,820 mg/m³)<br>⑤ (max. 3x60 min./Schicht, Momentanwert) |
| IOELV (EU) | **dimethyl ether**<br>CAS No.: 115-10-6<br>EC No.: 204-065-8 | ① 1,000 ppm (1,920 mg/m³) |
| MAK (AT) | **isobutane**<br>CAS No.: 75-28-5<br>EC No.: 200-857-2 | ② 1,600 ppm (3,800 mg/m³)<br>⑤ (max. 3x60 min./SchichtMomentanwert) |
| MAK (AT) | **isobutane**<br>CAS No.: 75-28-5<br>EC No.: 200-857-2 | ① 800 ppm (1,900 mg/m³) |
| MAK (AT) | **propane**<br>CAS No.: 74-98-6<br>EC No.: 200-827-9 | ② 2,000 ppm (3,600 mg/m³)<br>⑤ (max. 3x60 min./Schicht, Momentanwert) |
| MAK (AT) | **propane**<br>CAS No.: 74-98-6<br>EC No.: 200-827-9 | ① 1,000 ppm (1,800 mg/m³) |
| MAK (AT) | **ethane-1,2-diol**<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 10 ppm (26 mg/m³)<br>⑤ (kann über die Haut aufgenommen werden) H |
| MAK (AT) | **ethane-1,2-diol**<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ② 20 ppm (52 mg/m³)<br>⑤ (max. 8x5 min./Schicht, Momentanwert, kann über die Haut aufgenommen werden) H |

| Limit value type (country of origin) | Substance name | ① Long-term occupational exposure limit value<br>② Short-term occupational exposure limit value<br>③ Instantaneous value<br>④ Monitoring and observation processes<br>⑤ Remark |
|---|---|---|
| IOELV (EU) | **ethane-1,2-diol**<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 20 ppm (52 mg/m³)<br>② 40 ppm (104 mg/m³)<br>⑤ (may be absorbed through the skin) |

### 8.1.2. Biological limit values

No data available

### 8.1.3. DNEL-/PNEC-values

| Substance name | DNEL value | ① DNEL type<br>② Exposure route |
|---|---|---|
| **Reaction products of phosphoryl trichloride and 2-methyloxirane**<br>CAS No.: 75-28-5<br>EC No.: 807-935-0 | 8.2 mg/m³ | ① DNEL worker<br>② Long-term – inhalation, systemic effects |
| **Reaction products of phosphoryl trichloride and 2-methyloxirane**<br>CAS No.: 75-28-5<br>EC No.: 807-935-0 | 1.45 mg/m³ | ① DNEL Consumer<br>② Long-term – inhalation, systemic effects |
| **Reaction products of phosphoryl trichloride and 2-methyloxirane**<br>CAS No.: 75-28-5<br>EC No.: 807-935-0 | 2.91 mg/kg | ① DNEL worker<br>② Long-term - dermal, systemic effects |
| **Reaction products of phosphoryl trichloride and 2-methyloxirane**<br>CAS No.: 75-28-5<br>EC No.: 807-935-0 | 1.04 mg/kg | ① DNEL Consumer<br>② Long-term - dermal, systemic effects |
| **Reaction products of phosphoryl trichloride and 2-methyloxirane**<br>CAS No.: 75-28-5<br>EC No.: 807-935-0 | 0.52 mg/kg | ① DNEL Consumer<br>② Long-term - oral, systemic effects |
| **Reaction products of phosphoryl trichloride and 2-methyloxirane**<br>CAS No.: 75-28-5<br>EC No.: 807-935-0 | 2 mg/kg | ① DNEL Consumer<br>② Acute – oral, systemic effects |
| **Glycerin, propoxylated**<br>CAS No.: 25791-96-2<br>EC No.: 500-044-5 | 98 mg/m³ | ① DNEL worker<br>② Long-term – inhalation, systemic effects |
| **Glycerin, propoxylated**<br>CAS No.: 25791-96-2<br>EC No.: 500-044-5 | 29 mg/m³ | ① DNEL Consumer<br>② Long-term – inhalation, systemic effects |
| **Glycerin, propoxylated**<br>CAS No.: 25791-96-2<br>EC No.: 500-044-5 | 13.9 mg/kg | ① DNEL worker<br>② Long-term - dermal, systemic effects |
| **Glycerin, propoxylated**<br>CAS No.: 25791-96-2<br>EC No.: 500-044-5 | 8.3 mg/kg | ① DNEL Consumer<br>② Long-term - dermal, systemic effects |
| **Glycerin, propoxylated**<br>CAS No.: 25791-96-2<br>EC No.: 500-044-5 | 8.3 mg/kg | ① DNEL Consumer<br>② Long-term - oral, systemic effects |
| **dimethyl ether**<br>CAS No.: 115-10-6<br>EC No.: 204-065-8 | 1,894 mg/m³ | ① DNEL worker<br>② Long-term – inhalation, systemic effects |
| **dimethyl ether**<br>CAS No.: 115-10-6<br>EC No.: 204-065-8 | 471 mg/m³ | ① DNEL Consumer<br>② Long-term – inhalation, systemic effects |

| Substance name | DNEL value | ① DNEL type<br>② Exposure route |
|---|---|---|
| **ethane-1,2-diol**<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | 35 mg/m³ | ① DNEL worker<br>② Long-term – inhalation, local effects |
| **ethane-1,2-diol**<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | 7 mg/m³ | ① DNEL Consumer<br>② Long-term – inhalation, local effects |
| **ethane-1,2-diol**<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | 106 mg/kg | ① DNEL worker<br>② Long-term - dermal, systemic effects |
| **ethane-1,2-diol**<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | 53 mg/kg | ① DNEL Consumer<br>② Long-term - dermal, systemic effects |

| Substance name | PNEC Value | ① PNEC type |
|---|---|---|
| **Reaction products of phosphoryl trichloride and 2-methyloxirane**<br>CAS No.: 75-28-5<br>EC No.: 807-935-0 | 0.32 mg/L | ① PNEC aquatic, freshwater |
| **Reaction products of phosphoryl trichloride and 2-methyloxirane**<br>CAS No.: 75-28-5<br>EC No.: 807-935-0 | 0.032 mg/L | ① PNEC aquatic, marine water |
| **Reaction products of phosphoryl trichloride and 2-methyloxirane**<br>CAS No.: 75-28-5<br>EC No.: 807-935-0 | 11.5 mg/kg | ① PNEC sediment, freshwater |
| **Reaction products of phosphoryl trichloride and 2-methyloxirane**<br>CAS No.: 75-28-5<br>EC No.: 807-935-0 | 1.15 mg/kg | ① PNEC sediment, marine water |
| **Reaction products of phosphoryl trichloride and 2-methyloxirane**<br>CAS No.: 75-28-5<br>EC No.: 807-935-0 | 0.34 mg/kg | ① PNEC soil |
| **Reaction products of phosphoryl trichloride and 2-methyloxirane**<br>CAS No.: 75-28-5<br>EC No.: 807-935-0 | 0.51 mg/L | ① PNEC aquatic, intermittent release |
| **Glycerin, propoxylated**<br>CAS No.: 25791-96-2<br>EC No.: 500-044-5 | 0.2 mg/L | ① PNEC aquatic, freshwater |
| **Glycerin, propoxylated**<br>CAS No.: 25791-96-2<br>EC No.: 500-044-5 | 0.02 mg/L | ① PNEC aquatic, marine water |
| **Glycerin, propoxylated**<br>CAS No.: 25791-96-2<br>EC No.: 500-044-5 | 0.52 mg/kg | ① PNEC sediment, freshwater |
| **Glycerin, propoxylated**<br>CAS No.: 25791-96-2<br>EC No.: 500-044-5 | 0.052 mg/kg | ① PNEC sediment, marine water |
| **Glycerin, propoxylated**<br>CAS No.: 25791-96-2<br>EC No.: 500-044-5 | 0.067 mg/kg | ① PNEC soil |
| **Glycerin, propoxylated**<br>CAS No.: 25791-96-2<br>EC No.: 500-044-5 | 1 mg/L | ① PNEC aquatic, intermittent release |
| **dimethyl ether**<br>CAS No.: 115-10-6<br>EC No.: 204-065-8 | 0.155 mg/L | ① PNEC aquatic, freshwater |

| Substance name | PNEC Value | ① PNEC type |
|---|---|---|
| **dimethyl ether**<br>CAS No.: 115-10-6<br>EC No.: 204-065-8 | 0.016 mg/L | ① PNEC aquatic, marine water |
| **dimethyl ether**<br>CAS No.: 115-10-6<br>EC No.: 204-065-8 | 0.681 mg/kg | ① PNEC sediment, freshwater |
| **dimethyl ether**<br>CAS No.: 115-10-6<br>EC No.: 204-065-8 | 0.069 mg/kg | ① PNEC sediment, marine water |
| **dimethyl ether**<br>CAS No.: 115-10-6<br>EC No.: 204-065-8 | 0.045 mg/kg | ① PNEC soil |
| **dimethyl ether**<br>CAS No.: 115-10-6<br>EC No.: 204-065-8 | 1.549 mg/L | ① PNEC aquatic, intermittent release |
| **ethane-1,2-diol**<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | 10 mg/L | ① PNEC aquatic, freshwater |
| **ethane-1,2-diol**<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | 1 mg/L | ① PNEC aquatic, marine water |
| **ethane-1,2-diol**<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | 37 mg/kg | ① PNEC sediment, freshwater |
| **ethane-1,2-diol**<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | 3.7 mg/kg | ① PNEC sediment, marine water |
| **ethane-1,2-diol**<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | 1.53 mg/kg | ① PNEC soil |
| **ethane-1,2-diol**<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | 10 mg/L | 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 face protection.
CE marking: CE CAT II
EN 166:2002; EN 167:2002; EN 168:2002; EN ISO 4007:2018
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:
Reusable gloves for chemical protection
CE marking: CE CAT III
EN ISO 374-1:2016+A1:2018; EN 16523-1:2015+A1:2018; EN 420:2004+A1:2010
The breakthrough time specified by the manufacturer must be longer than the application time of the product. Do not use protective creams after contact of the product with the skin.
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
CE marking: CE CAT III
EN 1149-1,2,3; EN 13034:2005+A1:2009; EN ISO 13982-1:2004/A1:2010; EN ISO 6529:2013; EN ISO 6530:2005; EN ISO 13688:2013; EN 464:1994
Use exclusively at work. Clean regularly according to the manufacturer's instructions.

Safety footwear against chemical hazards, with antistatic and heat-resistant properties
CE marking: CE CAT III
EN ISO 13287:2013; EN ISO 20345:2011; EN 13832-1:2019
Replace boots at any sign of damage.

**Respiratory protection:**
Self-filtering mask for gases and vapours and particles
CE marking: CE CAT III
EN 149:2001+A1:2009; EN 405:2002+A1:2010; EN ISO 136:1998
Replace if increased breathing resistance or the smell or taste of the pollutant is noticed.

**Other protection measures:**
According to the order of priority for workplace control, local extraction in the work zone is recommended as a collective protective measure to avoid exceeding the limit values in the workplace. In case of using personal protective equipment, it must have the "CE marking"". For more information on personal protective equipment (storage, use, cleaning, maintenance, protection class,...), see the leaflet provided by the manufacturer. The instructions provided in this article refer to the pure product. Protective measures for the diluted product may vary depending on the degree of dilution, application and application procedure, etc. To determine the required installation of emergency showers or eyewashes in the storage rooms, the regulations for the storage of chemicals applicable in each case are taken into account. For more information, see sections 7.1 and 7.2.

Non-slip work footwear:
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.
VOC value: 16,76%
Density: 170,75 kg/m³ (170,75 g/L)

## SECTION 9: Physical and chemical properties

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

**Appearance**

**Form:** Aerosol
**Colour:** light yellow
**Odour:** not determined
**flammability:** No data available

**Safety relevant basis data**

| Parameter | Value | at °C | ① Method<br>② Remark |
|---|---|---|---|
| Initial boiling point and boiling range | -12 °C | | ② Propellant gas |
| Evaporation rate | *No data available* | | |
| Vapour pressure | < 300 kPa | 50 °C | |
| Density | 1,019 kg/m³ | 20 °C | |
| Water solubility | *No data available* | | |
| Self ignition temperature | 460 °C | | ② Propellant gas |

### 9.2. Other information
No further relevant information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity
No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability
Chemically stable under conditions of storage, handling and use.

### 10.3. Possibility of hazardous reactions
No hazardous reaction when handled and stored according to provisions.

### 10.4. Conditions to avoid
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 ($CO_2$), carbon monoxide and other organic compounds.

## SECTION 11: Toxicological information

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

| |
|---|
| **Reaction products of phosphoryl trichloride and 2-methyloxirane** CAS No.: 75-28-5 EC No.: 807-935-0 |
| **$LD_{50}$ oral:** 632 mg/kg (Rat) |
| **$LD_{50}$ dermal:** >2,000 mg/kg |
| **$LC_{50}$ Acute inhalation toxicity (dust/mist):** >20 mg/L |
| **Glycerin, propoxylated** CAS No.: 25791-96-2 EC No.: 500-044-5 |
| **$LD_{50}$ oral:** 500 mg/kg |
| **$LD_{50}$ dermal:** >2,000 mg/kg |
| **$LC_{50}$ Acute inhalation toxicity (dust/mist):** >20 mg/L |
| **dimethyl ether** CAS No.: 115-10-6 EC No.: 204-065-8 |
| **$LD_{50}$ oral:** >2,000 mg/kg |
| **$LD_{50}$ dermal:** >2,000 mg/kg |
| **$LC_{50}$ Acute inhalation toxicity (gas):** 308.5 ppmV 4 h (Rat) |
| **$LC_{50}$ Acute inhalation toxicity (dust/mist):** 308.5 mg/L 4 h (Rat) |
| **isobutane** CAS No.: 75-28-5 EC No.: 200-857-2 |
| **$LD_{50}$ oral:** >15,000 mg/kg |
| **$LD_{50}$ dermal:** >5,000 mg/kg |
| **$LC_{50}$ Acute inhalation toxicity (vapour):** >4,951 mg/L |
| **propane** CAS No.: 74-98-6 EC No.: 200-827-9 |
| **$LD_{50}$ oral:** 5,840 mg/kg (Rat) |
| **$LD_{50}$ dermal:** 13,900 mg/kg (Rabbit) |
| **$LC_{50}$ Acute inhalation toxicity (gas):** >25 ppmV 4 h (Rat) |
| **$LC_{50}$ Acute inhalation toxicity (vapour):** ≥50 mg/L 4 h (Rat) |
| **ethane-1,2-diol** CAS No.: 107-21-1 EC No.: 203-473-3 |
| **$LD_{50}$ oral:** >7,712 mg/kg (Rat) |
| **$LD_{50}$ dermal:** 3,500 mg/kg |

**Acute oral toxicity:**
Based on available data, the classification criteria are not met.

**Acute dermal toxicity:**
Based on available data, the classification criteria are not met.

**Acute inhalation toxicity:**
Based on available data, the classification criteria are not met.

**Skin corrosion/irritation:**
Leads to inflammation of the skin after contact.

**Serious eye damage/irritation:**
Causes eye injuries after contact.

**Respiratory or skin sensitisation:**
Taking a significant dose may cause throat irritation, abdominal pain, nausea and vomiting.
Causes respiratory irritation which is usually reversible and confined to the upper respiratory tract.

**Carcinogenicity:**
Contact with this product may cause cancer. For more information on possible health effects, see section 2. IARC: 4,4'-methylenediphenyl diisocyanate, isomers and homologues (3).

**Reproductive toxicity:**
May cause harm to breast-fed children.

**STOT-single exposure:**
Causes respiratory irritation which is usually reversible and confined to the upper respiratory tract.

**STOT-repeated exposure:**
Prolonged contact may cause specific respiratory hypersensitivity. Prolonged contact may cause allergic skin reactions. Exposure to high concentrations may cause central nervous system depression and headache, dizziness, nausea, vomiting, confusion and in severe cases loss of consciousness.

**Aspiration hazard:**
Based on available data, the classification criteria are not met.

### 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

| |
|---|
| **Reaction products of phosphoryl trichloride and 2-methyloxirane** CAS No.: 75-28-5 EC No.: 807-935-0 |
| **$LC_{50}$:** 100 mg/L 4 d (fish, Danio rerio) |
| **$EC_{50}$:** 131 mg/L 2 d (crustaceans, Daphnia magna) |
| **$EC_{50}$:** 82 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) |
| **NOEC:** 32 mg/L (crustaceans, Daphnia magna) |
| **dimethyl ether** CAS No.: 115-10-6 EC No.: 204-065-8 |
| **$LC_{50}$:** >4,000 mg/L 2 d (crustaceans, Daphnia magna) |
| **$LC_{50}$:** >4,000 mg/L 4 d (fish) |
| **$EC_{50}$:** 155 mg/L 4 d (Algae/water plant) |
| **$LC_{50}$:** >4,000 mg/L 2 d (daphnia magna) |
| **$EC_{50}$:** 155 mg/L 4 d (Alge) |
| **$EC_{50}$:** 155 mg/L 4 d (algae) |
| **isobutane** CAS No.: 75-28-5 EC No.: 200-857-2 |
| **$LC_{50}$:** 91.42 mg/L 4 d (fish, Fish, no other information) |
| **$LC_{50}$:** 100 mg/L 4 d (fish, Danio rerio) |
| **$LC_{50}$:** 91.42 mg/L 4 d (fish) |
| **$EC_{50}$:** 69.43 mg/L 2 d (crustaceans, Daphnia sp.) |
| **$EC_{50}$:** 1,000 mg/L 2 d (fish, Daphnia magna) |
| **$EC_{50}$:** 69.43 mg/L 2 d (crustaceans, Daphnia) Calculation with the ECOSAR programme v1.00. |
| **$ErC_{50}$:** 19.37 mg/L 4 d (Algae/water plant, Algae) |
| **$ErC_{50}$:** 19.37 mg/L 4 d (Algae/water plant) Calculation using ECOSAR Program v1.00. |

| |
|---|
| **propane** CAS No.: 74-98-6 EC No.: 200-827-9 |
| **$LC_{50}$:** 9,640 mg/L 4 d (fish, Pimephales promelas) |
| **$LC_{50}$:** 0.41 mg/L 4 d (fish, Oncorhynchus mykiss) |
| **$LC_{50}$:** 49.9 mg/L 4 d (fish) |
| **$EC_{50}$:** >100 mg/L (Algae/water plant, Bacteria) |
| **$EC_{50}$:** 0.17 mg/L 3 d (Algae/water plant, Selenastrum capricornutum) |
| **$EC_{50}$:** 69.43 mg/L 2 d (crustaceans, Daphnia) Calculation with the ECOSAR programme v1.00. |
| **NOEC:** 0.017 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) |
| **$ErC_{50}$:** 19.37 mg/L 4 d (Algae/water plant, Algae) Calculation with the ECOSAR programme v1.00. |
| **LOEC:** 1,000 mg/L (Algae/water plant, Algae) |
| **LOEC:** 1,000 mg/L (Algae/water plant, Alge) |
| **$IC_{50}$:** 11.3 mg/L 3 d (Algae/water plant) |
| **ethane-1,2-diol** CAS No.: 107-21-1 EC No.: 203-473-3 |
| **$LC_{50}$:** >72,860 mg/L (fish, Pimephales promelas) |
| **$EC_{50}$:** >100 mg/L (crustaceans, Daphnia magna) |
| **$EC_{50}$:** 6,500 – 13,000 mg/L 4 d (Algae/water plant) |
| **$EC_{50}$:** 100 mg/L |
| **NOEC:** ≥1,000 mg/L 21 d (crustaceans, Americamysis bahia) |
| **NOEC:** 8,590 mg/L (crustaceans, Chronic Crustacea) |
| **NOEC:** 15,380 mg/L (fish) |

**Assessment/classification:**
No further relevant information available.

### 12.2. Persistence and degradability

| |
|---|
| **Reaction products of phosphoryl trichloride and 2-methyloxirane** CAS No.: 75-28-5 EC No.: 807-935-0 |
| **Biodegradation:** Yes, slowly |
| **propane** CAS No.: 74-98-6 EC No.: 200-827-9 |
| **Biodegradation:** Yes, rapidly |
| **ethane-1,2-diol** CAS No.: 107-21-1 EC No.: 203-473-3 |
| **Biodegradation:** Yes, rapidly |
| **Remark:** Readily biodegradable (according to OECD criteria). |

**Additional information:**
No further relevant information available.

### 12.3. Bioaccumulative potential

| |
|---|
| **Reaction products of phosphoryl trichloride and 2-methyloxirane** CAS No.: 75-28-5 EC No.: 807-935-0 |
| **Log $K_{OW}$:** 3.17 |
| **isobutane** CAS No.: 75-28-5 EC No.: 200-857-2 |
| **Log $K_{OW}$:** 1.09 |
| **propane** CAS No.: 74-98-6 EC No.: 200-827-9 |
| **Log $K_{OW}$:** 1.09 |
| **ethane-1,2-diol** CAS No.: 107-21-1 EC No.: 203-473-3 |
| **Log $K_{OW}$:** -1.36 |
| **Bioconcentration factor (BCF):** 10 |

**Accumulation / Evaluation:**
No further relevant information available.

### 12.4. Mobility in soil
No further relevant information available.

## 12.5. Results of PBT and vPvB assessment

| |
|---|
| **Reaction products of phosphoryl trichloride and 2-methyloxirane** CAS No.: 75-28-5 EC No.: 807-935-0 |
| **Results of PBT and vPvB assessment:** — |
| **Glycerin, propoxylated** CAS No.: 25791-96-2 EC No.: 500-044-5 |
| **Results of PBT and vPvB assessment:** — |
| **dimethyl ether** CAS No.: 115-10-6 EC No.: 204-065-8 |
| **Results of PBT and vPvB assessment:** — |
| **isobutane** CAS No.: 75-28-5 EC No.: 200-857-2 |
| **Results of PBT and vPvB assessment:** — |
| **propane** CAS No.: 74-98-6 EC No.: 200-827-9 |
| **Results of PBT and vPvB assessment:** — |
| **ethane-1,2-diol** CAS No.: 107-21-1 EC No.: 203-473-3 |
| **Results of PBT and vPvB assessment:** — |

The product contains PBT / vPvB: Alkanes, C14-17, chloro

## 12.6. Endocrine disrupting properties

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

## 12.7. Other adverse effects

No further relevant information available.

# 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 |

**: Evidence for disposal must be provided.*

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

| | |
|---|---|
| HP 3 | Flammable |
| HP 4 | Irritant — skin irritation and eye damage |
| HP 5 | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity |
| HP 6 | Acute Toxicity |
| HP 7 | carcinogenic |
| HP 13 | Sensitising |

### Waste treatment options

**Appropriate disposal / Product:**

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) |
|---|---|---|---|
| **14.1. UN number or ID number** | | | |
| UN 1950 | UN 1950 | UN 1950 | UN 1950 |
| **14.2. UN proper shipping name** | | | |
| AEROSOLS | AEROSOLS | AEROSOLS | AEROSOLS |

| Land transport (ADR/RID) | Inland waterway craft (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|---|---|---|---|
| **14.3. Transport hazard class(es)** | | | |
|  2.1 |  2.1 |  2.1 |  2.1 |
| **14.4. Packing group** | | | |
| | | - | |
| **14.5. Environmental hazards** | | | |
| No | No | No | No |
| **14.6. Special precautions for user** | | | |
| **Special Provisions:** 190 \| 327 \| 344 \| 625 **Limited quantity (LQ):** 1 L **Excepted Quantities (EQ):** E0 **Classification code:** 5F **Tunnel restriction code:** (D) | **Special Provisions:** 190 \| 327 \| 344 \| 625 **Limited quantity (LQ):** 1 L **Excepted Quantities (EQ):** E0 **Classification code:** 5F | **Special Provisions:** 63 \| 190 \| 277 \| 327 \| 344 \| 381 \| 959 **Limited quantity (LQ):** Siehe SV277 **Excepted Quantities (EQ):** E0 **EmS-No.:** F-D, S-U | **Special Provisions:** A145 \| A167 **Limited quantity (LQ):** Y203 **Excepted Quantities (EQ):** E0 |

### 14.7. Maritime transport in bulk according to IMO instruments
not applicable

## SECTION 15: Regulatory information

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

### 15.1.1. EU legislation

**Authorisations:**
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.

**Other regulations (EU):**
Hazard categories:
• P3a 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids

Named dangerous substances:
• Liquefied flammable gases, Category 1 or 2 (including liquefied petroleum gas) and natural gas

**Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:**
Volatile organic compounds (VOC) content in percent by weight: 16.76 Vol-%

### 15.1.2. National regulations
No data available

### 15.2. Chemical Safety Assessment
A chemical safety assessment has not been carried out.

## SECTION 16: Other information

* **16.1. Indication of changes**

| | |
|---|---|
| 1.3. | Details of the supplier of the safety data sheet |
| 8.1. | Control parameters |

| | |
|---|---|
| 9.1. | Information on basic physical and chemical properties |
| 12.1. | Toxicity |
| 15.1. | Safety, health and environmental regulations/legislation specific for the substance or mixture |
| 16.1. | Indication of changes |
| 16.2. | Abbreviations and acronyms |

* 
## 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 |
| $EC_{50}$ | Effective Concentration 50% |
| ES | Exposure scenario |
| EWC | European Waste Catalogue |
| IARC | International Agency for Research on Cancer |
| $IC_{50}$ | Inhibition Concentration 50 % |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |
| IMO | International Maritime Organization |
| KG | body weight |
| $LC_{50}$ | Lethal (fatal) Concentration 50% |
| $LD_{50}$ | 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 |
| 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 |
| VOC | Volatile organic compounds |
| ZNS | central nervous system |

## 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 |
|---|---|---|
| aerosol dispensers and lighters *(Aerosol 1)* | H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated. | |
| Acute toxicity (oral) *(Acute Tox. 4)* | H302: Harmful if swallowed. | |
| Skin corrosion/irritation *(Skin Irrit. 2)* | H315: Causes skin irritation. | |
| Respiratory or skin sensitisation *(Skin Sens. 1)* | H317: May cause an allergic skin reaction. | |
| Serious eye damage/eye irritation *(Eye Irrit. 2)* | H319: Causes serious eye irritation. | |

| Hazard classes and hazard categories | Hazard statements | Classification procedure |
|---|---|---|
| Respiratory or skin sensitisation *(Resp. Sens. 1)* | H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. | |
| STOT-single exposure *(STOT SE 3)* | H335: May cause respiratory irritation. | |
| Carcinogenicity *(Carc. 2)* | H351: Suspected of causing cancer. | |
| STOT-repeated exposure *(STOT RE 2)* | H373: May cause damage to organs through prolonged or repeated exposure. | |

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

| Hazard statements | |
|---|---|
| H220 | Extremely flammable gas. |
| H280 | Contains gas under pressure; may explode if heated. |
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H351 | Suspected of causing cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

### 16.6. Training advice
No data available

### 16.7. Additional information
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.

* Data changed compared with the previous version.