# Safety data sheet
**according to 1907/2006/EC, Article 31**

*Printing date 15.11.2022* *Version number 1* *Revision: 15.11.2022*

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

· **1.1 Product identifier**

· **Trade name: Aerosol 2K Fill in Serie H**

· **(Article number) product ID.:** REZ264
· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
· **Sector of Use**
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

· **Application of the substance / the mixture:**
painting
FOR PROFESSIONAL USE ONLY
· **Uses advised against** Consumer uses: Private households / general public / consumers

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Peter Kwasny GmbH
Heilbronner Str. 96
D-74831 Gundelsheim
Tel.: 0049-(0)6269-95-20
E-mail: labor@kwasny.de

· **Further information obtainable from:** Product safety department

· **1.4 Emergency telephone number:** Tel.:+49 6269 95 20
· **national:**
National Poisons Information Service, Birmingham
Tel.: 844 892 0111
· **K-Nr.** 0001

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## SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**

flame

Aerosol 1 H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.

Acute Tox. 4 H332 Harmful if inhaled.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H336 May cause drowsiness or dizziness.

· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the GB CLP regulation.

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· ***Hazard pictograms***

GHS02 GHS07

· ***Signal word*** *Danger*

· ***Hazard-determining components of labelling:***
*Aliphatisches Polyisocyanat (HDI oligomers, isocyanurate)*
*n-butyl acetate*

· ***Hazard statements***
*H222 Extremely flammable aerosol.*
*H229 Pressurised container: May burst if heated.*
*H332 Harmful if inhaled.*
*H317 May cause an allergic skin reaction.*
*H336 May cause drowsiness or dizziness.*

· ***Precautionary statements***
*P101 If medical advice is needed, have product container or label at hand.*
*P102 Keep out of reach of children.*
*P103 Read carefully and follow all instructions.*
*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.*
*P302+P352 IF ON SKIN: Wash with plenty of water.*
*P312 Call a POISON CENTER/doctor if you feel unwell.*
*P333+P313 If skin irritation or rash occurs: Get medical advice/attention.*
*P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.*
*P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*

· ***Additional information:***
*Without adequate ventilation, explosive atmosphere/gas mix may be created.*
*Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.*
*EUH204 Contains isocyanates. May produce an allergic reaction.*

· ***Information concerning particular hazards for human and environment:*** *1272/2008/EC,II, 3.2*
· ***2.3 Other hazards***
· ***Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*

## SECTION 3: Composition/information on ingredients

· ***3.2 Mixtures***
· ***Description:*** *Mixture of substances listed below with nonhazardous additions.*

· ***Dangerous components:***

| | | |
|---|---|---|
| *CAS: 115-10-6*<br>*EINECS: 204-065-8*<br>*Reg.nr.: 01-2119472128-37-xxxx* | *dimethyl ether*<br>*Flam. Gas 1A, H220; Press. Gas (Comp.), H280, EUH018* | *50-100%* |
| *CAS: 123-86-4*<br>*EINECS: 204-658-1*<br>*Reg.nr.: 01-2119485493-29-xxxx* | *n-butyl acetate*<br>*Flam. Liq. 3, H226; STOT SE 3, H336, EUH066* | *10-<25%* |

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| | | |
|---|---|---|
| CAS: 28182-81-2<br>NLP: 500-060-2<br>Reg.nr.: 01-2119485796-17-xxxx | Aliphatisches Polyisocyanat (HDI oligomers, isocyanurate)<br>Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 | 10-<25% |

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information:**
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
· **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
· **After eye contact:** Rinse opened eye for several minutes under running water.
· **After swallowing:** If symptoms persist consult doctor.
· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

## SECTION 5: Firefighting measures

· **5.1 Extinguishing media** -
· **Suitable extinguishing agents:** Cool container whit water
· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
· **5.3 Advice for firefighters**
· **Protective equipment:** Mouth respiratory protective device.

## SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
· **6.3 Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

## SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
· **Information about fire - and explosion protection:**
Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.

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*Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.*

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
*Observe official regulations on storing packagings with pressurised containers.*
· **Information about storage in one common storage facility:** *Not required.*
· **Further information about storage conditions:** *None.*
· **7.3 Specific end use(s)** *No further relevant information available.*

## SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

| · **Ingredients with limit values that require monitoring at the workplace:** | |
|---|---|
| **115-10-6 dimethyl ether** | |
| WEL | Short-term value: 958 mg/m³, 500 ppm<br>Long-term value: 766 mg/m³, 400 ppm |
| **123-86-4 n-butyl acetate** | |
| WEL | Short-term value: 966 mg/m³, 200 ppm<br>Long-term value: 724 mg/m³, 150 ppm |

· **Additional information:** *The lists valid during the making were used as basis.*

· **8.2 Exposure controls**
· **Appropriate engineering controls** *No further data; see item 7.*
· **Individual protection measures, such as personal protective equipment**
· **General protective and hygienic measures:**
*Immediately remove all soiled and contaminated clothing*
*Wash hands before breaks and at the end of work.*
· **Respiratory protection:**
*In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.*

*When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Half mask with combination filter, class A1P2 minimum, or breathing mask with outer air supply.*

· **Hand protection**
*Protective gloves*

*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.*

*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*
· **Material of gloves** *Nitrile rubber, NBR*
· **Penetration time of glove material**
*Gloves must be changed after every contamination.*
*The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.*
· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
*butyl rubber, 0,7mm*

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· **Eye/face protection** Not required.

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## SECTION 9: Physical and chemical properties

| | |
|---|---|
| · **9.1 Information on basic physical and chemical properties** | |
| · **General Information** | |
| · **Physical state** | Aerosol |
| · **Colour:** | According to product specification |
| · **Odour:** | Characteristic |
| · **Odour threshold:** | Not determined. |
| · **Melting point/freezing point:** | Undetermined. |
| · **Boiling point or initial boiling point and boiling range** | -24.9 °C (115-10-6 dimethyl ether) |
| · **Flammability** | Not applicable. |
| · **Lower and upper explosion limit** | |
| · **Lower:** | 1.2 Vol % (123-86-4 n-butyl acetate) |
| · **Upper:** | 18.6 Vol % (115-10-6 dimethyl ether) |
| · **Flash point:** | <0 °C |
| · **Ignition temperature:** | 235 °C |
| · **Decomposition temperature:** | Not determined. |
| · **pH** | Not determined. |
| · **Viscosity:** | |
| · **Kinematic viscosity** | Not determined. |
| · **Dynamic:** | Not determined. |
| · **Solubility** | |
| · **water:** | Not miscible or difficult to mix. |
| · **Partition coefficient n-octanol/water (log value)** | Not determined. |
| · **Vapour pressure at 20 °C:** | 3,400 hPa (115-10-6 dimethyl ether) |
| · **Density and/or relative density** | |
| · **Relative density** | Not determined. |
| · **Vapour density** | Not determined. |

| | |
|---|---|
| · **9.2 Other information** | |
| · **Appearance:** | |
| · **Form:** | Aerosol |
| · **Important information on protection of health and environment, and on safety.** | |
| · **Auto-ignition temperature:** | Product is not selfigniting. |
| · **Explosive properties:** | Product is not explosive. However, formation of explosive air/vapour mixtures are possible.<br>Not determined. |
| · **Solvent content:** | |
| · **Organic solvents:** | 88.3 %<br>With propellant gas. Content given by weight. |
| · **VOC (EU)** | 88.26 % |
| · **Solids content:** | 11.7 % |
| · **Change in condition** | |
| · **Evaporation rate** | Not applicable. |

| | |
|---|---|
| · **Information with regard to physical hazard classes** | |
| · **Explosives** | Void |
| · **Flammable gases** | Void |
| · **Aerosols** | Extremely flammable aerosol. Pressurised container: May burst if heated. |
| · **Oxidising gases** | Void |

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| | |
|---|---|
| · **Gases under pressure** | Void |
| · **Flammable liquids** | Void |
| · **Flammable solids** | Void |
| · **Self-reactive substances and mixtures** | Void |
| · **Pyrophoric liquids** | Void |
| · **Pyrophoric solids** | Void |
| · **Self-heating substances and mixtures** | Void |
| · **Substances and mixtures, which emit flammable gases in contact with water** | Void |
| · **Oxidising liquids** | Void |
| · **Oxidising solids** | Void |
| · **Organic peroxides** | Void |
| · **Corrosive to metals** | Void |
| · **Desensitised explosives** | Void |

## SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **10.3 Possibility of hazardous reactions** No dangerous reactions known.
· **10.4 Conditions to avoid** No further relevant information available.
· **10.5 Incompatible materials:** No further relevant information available.
· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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## SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
· **Acute toxicity** Harmful if inhaled.

· **LD/LC50 values relevant for classification:**

**ATE (Acute Toxicity Estimates)**

| | | |
|---|---|---|
| Dermal | LD50 | 17,043 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 12.8 mg/l |

· **Respiratory or skin sensitisation** May cause an allergic skin reaction.
· **STOT-single exposure** May cause drowsiness or dizziness.
· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

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## SECTION 12: Ecological information

· **12.1 Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **12.2 Persistence and degradability** No further relevant information available.
· **12.3 Bioaccumulative potential** No further relevant information available.
· **12.4 Mobility in soil** No further relevant information available.
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Ikke relevant.

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· ***12.6 Endocrine disrupting properties***
*The product does not contain substances with endocrine disrupting properties.*
· ***12.7 Other adverse effects***
· ***Additional ecological information:***
· ***General notes:*** *Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water*

* 
## SECTION 13: Disposal considerations

· ***13.1 Waste treatment methods***
· ***Recommendation***
*Must not be disposed together with household garbage. Do not allow product to reach sewage system.*

· ***Uncleaned packaging:***
· ***Recommendation:*** *Disposal must be made according to official regulations.*

* 
## SECTION 14: Transport information

| | |
|---|---|
| · ***14.1 UN number or ID number*** | |
| · ***ADR, IMDG, IATA*** | *UN1950* |
| · ***14.2 UN proper shipping name*** | |
| · ***ADR*** | *1950 AEROSOLS* |
| · ***IMDG*** | *AEROSOLS* |
| · ***IATA*** | *AEROSOLS, flammable* |
| · ***14.3 Transport hazard class(es)*** | |
| · ***ADR*** | |

| | |
|---|---|
| · ***Class*** | *2 5F Gases.* |
| · ***Label*** | *2.1* |
| · ***IMDG, IATA*** | |

| | |
|---|---|
| · ***Class*** | *2.1 Gases.* |
| · ***Label*** | *2.1* |
| · ***14.4 Packing group*** | |
| · ***ADR, IMDG, IATA*** | *Void*<br>*not classified* |
| · ***14.5 Environmental hazards:*** | |
| · ***Marine pollutant:*** | *No* |
| · ***14.6 Special precautions for user*** | *Warning: Gases.* |
| · ***Hazard identification number (Kemler code):*** | -<br>*not classified* |
| · ***EMS Number:*** | *F-D,S-U* |
| · ***Stowage Code*** | *SW1 Protected from sources of heat.*<br>*SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above* |

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| | |
|---|---|
| · | 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. |
| · **Segregation Code** | SG69 For AEROSOLS with a maximum capacity of 1 litre:<br>Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.<br>For AEROSOLS with a capacity above 1 litre:<br>Segregation as for the appropriate subdivision of class 2.<br>For WASTE AEROSOLS:<br>Segregation as for the appropriate subdivision of class 2. |
| · **14.7 Maritime transport in bulk according to IMO instruments** | Not applicable. |
| · **Transport/Additional information:** | |
| · **ADR** | |
| · **Limited quantities (LQ)** | 1L |
| · **Excepted quantities (EQ)** | Code: E0<br>Not permitted as Excepted Quantity |
| · **Transport category** | 2 |
| · **Tunnel restriction code** | D |
| · **IMDG** | |
| · **Limited quantities (LQ)** | 1L |
| · **Excepted quantities (EQ)** | Code: E0<br>Not permitted as Excepted Quantity |
| · **UN "Model Regulation":** | UN 1950 AEROSOLS, 2.1 |

## SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
VOC: <840g/l

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **Seveso category** P3a FLAMMABLE AEROSOLS
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

· **National regulations:**

· **Technical instructions (air):**

| Class | Share in % |
|---|---|
| NK | 50-100 |

· **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**
H220 Extremely flammable gas.
H226 Flammable liquid and vapour.

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*H280 Contains gas under pressure; may explode if heated.*
*H312 Harmful in contact with skin.*
*H317 May cause an allergic skin reaction.*
*H332 Harmful if inhaled.*
*H335 May cause respiratory irritation.*
*H336 May cause drowsiness or dizziness.*
*EUH018 In use may form flammable/explosive vapour-air mixture.*
*EUH066 Repeated exposure may cause skin dryness or cracking.*
*EUH204 Contains isocyanates. May produce an allergic reaction.*

· ***Department issuing SDS:*** *Product safety department*
· ***Abbreviations and acronyms:***
*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*
*IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)*
*ICAO: International Civil Aviation Organisation*
*ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)*
*ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)*
*IMDG: International Maritime Code for Dangerous Goods*
*IATA: International Air Transport Association*
*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*
*EINECS: European Inventory of Existing Commercial Chemical Substances*
*ELINCS: European List of Notified Chemical Substances*
*CAS: Chemical Abstracts Service (division of the American Chemical Society)*
*LC50: Lethal concentration, 50 percent*
*LD50: Lethal dose, 50 percent*
*PBT: Persistent, Bioaccumulative and Toxic*
*vPvB: very Persistent and very Bioaccumulative*
*Flam. Gas 1A: Flammable gases – Category 1A*
*Aerosol 1: Aerosols – Category 1*
*: Aerosols – Category 3*
*Press. Gas (Comp.): Gases under pressure – Compressed gas*
*Flam. Liq. 3: Flammable liquids – Category 3*
*Acute Tox. 4: Acute toxicity – Category 4*
*Skin Sens. 1: Skin sensitisation – Category 1*
*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*
· **** Data compared to the previous version altered.***