

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

Printing date 18.12.2019

Revision: 18.12.2019

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

- **1.1 Product identifier**
- **Trade name:** Aerosol 1K Grundierung 4074
- **Article number (product ID.):** REZ772
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** painting
- **Uses advised against** No further relevant information available.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Peter Kwasny GmbH  
Heilbronner Str. 96  
D-74831 Gundelsheim
- **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

Tel.: 0049-(0)6269-95-20  
E-mail: labor@kwasny.de

**SECTION 2: Hazards identification**

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



GHS02 flame

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



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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

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## · Hazard pictograms



GHS02 GHS05 GHS07

· Signal word *Danger*

## · Hazard-determining components of labelling:

*butan-1-ol**Epoxy resin with an average molecular weight of  $700 \leq 1200$* *propan-1-ol**n-butyl acetate*

## · Hazard statements

*H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.**H315 Causes skin irritation.**H318 Causes serious eye damage.**H317 May cause an allergic skin reaction.**H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.**H412 Harmful to aquatic life with long lasting effects.*

## · Precautionary statements

*P101 If medical advice is needed, have product container or label at hand.**P102 Keep out of reach of children.**P103 Read label before use.**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.**P261 Avoid breathing vapours/spray.**P271 Use only outdoors or in a well-ventilated area.**P273 Avoid release to the environment.**P302+P352 IF ON SKIN: Wash with plenty of water.**P310 Immediately call a POISON CENTER/doctor.**P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**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.

## · 2.3 Other hazards

## · Results of PBT and vPvB assessment

· **PBT:** Not applicable.· **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

## · 3.2 Chemical characterisation: Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.· **Dangerous components:**

|                                |                                       |         |
|--------------------------------|---------------------------------------|---------|
| CAS: 115-10-6                  | dimethyl ether                        | 50-100% |
| EINECS: 204-065-8              | Flam. Gas 1, H220; Press. Gas C, H280 |         |
| Reg.nr.: 01-2119472128-37-xxxx |                                       |         |

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|   |   |         |
|---|---|---------|
| CAS: 71-36-3<br>EINECS: 200-751-6<br>Reg.nr.: 01-2119484630-38-xxxx   | butan-1-ol<br>Flam. Liq. 3, H226; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336   | 25-<50% |
| CAS: 71-23-8<br>EINECS: 200-746-9<br>Reg.nr.: 01-2119486761-29-xxxx   | propan-1-ol<br>Flam. Liq. 2, H225; Eye Dam. 1, H318; Acute Tox. 4, H302; STOT SE 3, H336  | 5-<10%  |
| 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  | 5-<10%  |
| CAS: 25068-38-6<br>NLP: 500-033-5                                     | Epoxy resin with an average molecular weight of $700 \leq 1200$<br>Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317  | 1-<2.5% |
| CAS: 1314-13-2<br>EINECS: 215-222-5<br>Reg.nr.: 01-2119463881-32-xxxx | zinc oxide<br>Aquatic Acute 1, H400; Aquatic Chronic 1, H410  | 1-<2.5% |
| CAS: 1330-20-7<br>EINECS: 215-535-7<br>Reg.nr.: 01-2119488216-32-xxxx | xylene, mixture of isomers<br>Flam. Liq. 3, H226; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 | 1-<2.5% |

· **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.
- **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. Then consult a doctor.
- **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 with water
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

#### 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 product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Use neutralising agent.

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- 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.  
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

- **Additional information about design of technical facilities:** No further data; see item 7.
- **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/m <sup>3</sup> , 500 ppm<br>Long-term value: 766 mg/m <sup>3</sup> , 400 ppm |
|-----|---|

**71-36-3 butan-1-ol**

|     |  |
|-----|--|
| WEL | Short-term value: 154 mg/m <sup>3</sup> , 50 ppm |
|     | Sk   |

**71-23-8 propan-1-ol**

|     |   |
|-----|---|
| WEL | Short-term value: 625 mg/m <sup>3</sup> , 250 ppm<br>Long-term value: 500 mg/m <sup>3</sup> , 200 ppm |
|     | Sk  |

**123-86-4 n-butyl acetate**

|     |   |
|-----|---|
| WEL | Short-term value: 966 mg/m <sup>3</sup> , 200 ppm<br>Long-term value: 724 mg/m <sup>3</sup> , 150 ppm |
|-----|---|

**1330-20-7 xylene, mixture of isomers**

|     |  |
|-----|--|
| WEL | Short-term value: 441 mg/m <sup>3</sup> , 100 ppm<br>Long-term value: 220 mg/m <sup>3</sup> , 50 ppm |
|     | Sk; BMGV   |

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· **Ingredients with biological limit values:**

**1330-20-7 xylene, mixture of isomers**

|      |  |
|------|--|
| BMGV | 650 mmol/mol creatinine<br>Medium: urine<br>Sampling time: post shift<br>Parameter: methyl hippuric acid |
|------|--|

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

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.

· **Respiratory protection:**



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.

· **Protection of hands:**

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 through 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

· **Eye protection:**

Safety glasses



Tightly sealed goggles

### SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

|                |                                    |
|----------------|------------------------------------|
| <b>Form:</b>   | Aerosol                            |
| <b>Colour:</b> | According to product specification |
| <b>Odour:</b>  | Characteristic                     |

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|   |  |
|---|--|
| · <b>Odour threshold:</b>                                     | Not determined.  |
| · <b>pH-value:</b>  | Not determined.  |
| · <b>Change in condition</b><br>Melting point/freezing point: | Undetermined.  |
| Initial boiling point and boiling range:                      | -24.9 °C   |
| · <b>Flash point:</b>   | <0 °C<br>Without propellant gas.   |
| · <b>Flammability (solid, gas):</b>                           | Not applicable.  |
| · <b>Ignition temperature:</b>                                | 235 °C   |
| · <b>Decomposition temperature:</b>                           | Not determined.  |
| · <b>Auto-ignition temperature:</b>                           | Product is not selfigniting.   |
| · <b>Explosive properties:</b>                                | Product is not explosive. However, formation of explosive air/<br>vapour mixtures are possible.<br>Not determined. |
| · <b>Explosion limits:</b><br>Lower:                          | 1.5 Vol %  |
| Upper:  | 18.6 Vol %   |
| · <b>Vapour pressure at 20 °C:</b>                            | 3,400 hPa  |
| · <b>Density:</b>   | Not determined.  |
| · <b>Relative density</b>                                     | Not determined.  |
| · <b>Vapour density</b>                                       | Not determined.  |
| · <b>Evaporation rate</b>                                     | Not applicable.  |
| · <b>Solubility in / Miscibility with water:</b>              | Not miscible or difficult to mix.  |
| · <b>Partition coefficient: n-octanol/water:</b>              | Not determined.  |
| · <b>Viscosity:</b><br>Dynamic:                               | Not determined.  |
| Kinematic:  | Not determined.  |
| · <b>Solvent content:</b><br>Organic solvents:                | 92.0 %<br>With propellant gas. Content given by weight.  |
| VOC (EU)  | 91.95 %  |
| Solids content:   | 5.9 %  |
| · <b>9.2 Other information</b>                                | No further relevant information available.   |

### 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 toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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

#### ATE (Acute Toxicity Estimates)

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | 2,713 mg/kg (rat) |
|------|------|-------------------|

#### 71-36-3 butan-1-ol

|            |          |                      |
|------------|----------|----------------------|
| Oral       | LD50     | 790 mg/kg (rat)      |
| Dermal     | LD50     | 3,400 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 8,000 mg/l (rat)     |

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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.
- **STOT-single exposure**  
May cause respiratory irritation. May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### 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.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Must not reach sewage water or drainage ditch undiluted or unneutralised.  
Harmful to aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Ikke relevant.
- **12.6 Other adverse effects** No further relevant information available.

### 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.

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· **European waste catalogue**

15 01 10\* | packaging containing residues of or contaminated by hazardous substances

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

### SECTION 14: Transport information

· **14.1 UN-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

· **Label**

2.1

· **14.4 Packing group**· **ADR, IMDG, IATA**

Void

not classified

· **14.5 Environmental hazards:**· **Marine pollutant:**

No

· **14.6 Special precautions for user**· **Danger code (Kemler):**

Warning: Gases.

-

not classified

· **EMS Number:**

F-D,S-U

· **Stowage Code**

SW1 Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity of 1 litre:

Category A. For AEROSOLS with a capacity above 1 litre:

Category B. For WASTE AEROSOLS: Category C, Clear

of living quarters.

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|  |   |
|--|---|
| · <b>Segregation Code</b>  | 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. |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.   |
| · <b>Transport/Additional information:</b>                                       |   |
| · <b>ADR</b>   |   |
| · <b>Limited quantities (LQ)</b>   | 1L  |
| · <b>Excepted quantities (EQ)</b>  | Code: E0<br>Not permitted as Excepted Quantity  |
| · <b>Transport category</b>  | 2   |
| · <b>Tunnel restriction code</b>   | D   |
| · <b>IMDG</b>  |   |
| · <b>Limited quantities (LQ)</b>   | 1L  |
| · <b>Excepted quantities (EQ)</b>  | Code: E0<br>Not permitted as Excepted Quantity  |
| · <b>UN "Model Regulation":</b>  | 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
  - **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
  - **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.  
H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H280 Contains gas under pressure; may explode if heated.

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H302 Harmful if swallowed.  
 H304 May be fatal if swallowed and enters airways.  
 H312 Harmful in contact with skin.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 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.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.

· **Department issuing SDS:** Product safety department

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport 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 1: Flammable gases – Category 1  
 Aerosol 1: Aerosols – Category 1  
 Press. Gas C: Gases under pressure – Compressed gas  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Flam. Liq. 3: Flammable liquids – Category 3  
 Acute Tox. 4: Acute toxicity - oral – Category 4  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 Skin Sens. 1: Skin sensitisation – Category 1  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 Asp. Tox. 1: Aspiration hazard – Category 1  
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· **\* Data compared to the previous version altered.**

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