



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 2K Epoxy Grundierfueller grau
- · Article number (product ID.): REZ205
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture: painting

FOR PROFESSIONAL USE ONLY

- · 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

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

### 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.



#### GHS07

Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
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.

· Hazard pictograms





GHS02 GHS07

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#### · Signal word Danger

#### · Hazard-determining components of labelling:

*Epoxy resin with an average molecular weight of 700≤1200 ethylenediamine* 

### · Hazard statements

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

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

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.
 P273 Avoid release to the environment.

P302+P352 IF ON SKIN: Wash with plenty of water.

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.

P337+P313 If eye irritation persists: 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	25-<50%
EINECS: 204-065-8 Reg.nr.: 01-2119472128-37-xxxx	🍪 Flam. Gas 1, H220; Press. Gas C, H280	
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-xxxx	acetone  Flam. Liq. 2, H225; Use Irrit. 2, H319; STOT SE 3, H336	10-<25%
CAS: 25068-38-6 NLP: 500-033-5	Epoxy resin with an average molecular weight of 700≤1200 ♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	5-<10%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-xxxx	xylene  Flam. Liq. 3, H226;  Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	2.5-<5%
CAS: 110-12-3 EINECS: 203-737-8 Reg.nr.: 01-2119472300-51-xxxx	5-methylhexan-2-one  Flam. Liq. 3, H226;  Acute Tox. 4, H332	1-<2.5%

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CAS: 7779-90-0 EINECS: 231-944-3 Reg.nr.: 01-2119485044-40-xxxx	trizinc bis(orthophosphate)  Aquatic Acute 1, H400; Aquatic Chronic 1, H410	1-<2.5%
CAS: 71-36-3 EINECS: 200-751-6 Reg.nr.: 01-2119484630-38-xxxx	butan-1-ol ❖ Flam. Liq. 3, H226; ❖ Eye Dam. 1, H318; ❖ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	1-<2.5%
CAS: 111-76-2 EINECS: 203-905-0 Reg.nr.: 01-2119475108-36-xxxx	2-butoxyethanol Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-<2.5%
CAS: 64742-94-5 EINECS: 265-198-5 Reg.nr.: 01-2119463583-34-xxxx	Solvent naphtha (petroleum), heavy arom.  Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	1-<2.5%
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35-xxxx	ethylbenzene  Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, 1304; Acute Tox. 4, H332	1-<2.5%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29-xxxx	n-butyl acetate  Flam. Liq. 3, H226;  STOT SE 3, H336	1-<2.5%
CAS: 107-15-3 EINECS: 203-468-6	ethylenediamine  Flam. Liq. 3, H226; Acute Tox. 1, H330; Resp. Sens. 1, H334; Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	≥0.1-<1%

### 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.* 

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

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, 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 whit 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.

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### 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:

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 workpl	orkplace:	the we	onitoring at	reauire	that	values	limit	with	<i>ngredients</i>	. 1
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#### 115-10-6 dimethyl ether

WEL Short-term value: 958 mg/m³, 500 ppm Long-term value: 766 mg/m³, 400 ppm

#### 67-64-1 acetone

WEL Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m<sup>3</sup>, 500 ppm

### 1330-20-7 xylene

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

Sk; BMGV

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110-1	12-3 5-methylhexan-2-one	
WEL	Short-term value: 475 mg/m³, 100 ppm Long-term value: 95 mg/m³, 20 ppm Sk	
71-36	6-3 butan-1-ol	
WEL	Short-term value: 154 mg/m³, 50 ppm Sk	
111-7	76-2 2-butoxyethanol	
WEL	Short-term value: 246 mg/m³, 50 ppm Long-term value: 123 mg/m³, 25 ppm Sk, BMGV	
100-4	41-4 ethylbenzene	
WEL	Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm Sk	
123-8	86-4 n-butyl acetate	
WEL	Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm	
Ingre	edients with biological limit values:	
1330	-20-7 xylene	
BMG	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid	
111-7	76-2 2-butoxyethanol	
BMG	W 240 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: butoxyacetic 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

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- · 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

· Eye protection:



Tightly sealed goggles

SECTION	9: Physical	and c	nemical	propert	ies

. 9.1	l Information	on basic	: physical	and	chemical	properties
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· General Information

 $\cdot Appearance:$ 

Form: Aerosol

Colour: According to product specification

Odour: CharacteristicOdour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: Not applicable, as aerosol.

· Flash point: <0 °C

Without propellant gas.

· Flammability (solid, gas): Not applicable.

· Ignition temperature: 235 °C

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

• Explosive properties: Product is not explosive. However, formation of explosive air/

vapour mixtures are possible.

Not determined.

· Explosion limits:

 Lower:
 2.6 Vol %

 Upper:
 18.6 Vol %

· Vapour pressure at 20 °C: 3,400 hPa

Density: Not determined.
Relative density Not determined.
Vapour density Not determined.
Evaporation rate Not applicable.

· Solubility in / Miscibility with

water: Not miscible or difficult to mix.

· Partition coefficient: n-octanol/water: Not determined.

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· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	66.2 %	
	With propellant gas. Content given by weight.	
VOC (EU)	66.24 %	
Solids content:	33.8 %	
· 9.2 Other information	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.

### **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 rel	levant for	classification:
ATELA	. T	T7	\

AT	E (Acu	te Toxicity	Estimates)
_	1	ID50	24260

 Oral
 LD50
 34,268 mg/kg (rat)

 Inhalative
 LC50/4 h
 125 mg/l

- · Primary irritant effect:
- · Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eye irritation.

· Respiratory or skin sensitisation

May cause an allergic skin reaction.

- · CMR effects (carcinogenity, 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 Based on available data, the classification criteria are not met.
- · 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.

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- $\cdot \textit{Ecotoxical effects:}$
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

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.

· 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.

SECT	ION 1	4: 7	ransport	ini	<i>formation</i>
DECI			IWIUSPULU	244	

- · 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)
- $\cdot ADR$



· Class
 · Label
 2 5F Gases.
 2.1

· IMDG, IATA



· Class
 · Label
 2.1
 2.1

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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.
Segregation Code	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.  SG69 For AEROSOLS with a maximum capacity of 1 litre. Segregation as for class 9. Stow "separated from" class except for division 1.4.  For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS:
	Segregation as for the appropriate subdivision of class 2.
14.7 Transport in bulk according to An Marpol and the IBC Code	nex II of Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
Transport category Tunnel restriction code	2 D
IMDG	
Limited quantities (LQ)	IL
Excepted quantities $(\widetilde{EQ})$	Code: E0
_ · · · · · · · · · · · · · · · · · · ·	Not permitted as Excepted Quantity
UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

## **SECTION 15: Regulatory information**

- $\cdot$  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
- $\cdot$  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

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- · National regulations:
- · Technical instructions (air):

Class	Share in %
Ι	≥0.025-<0.25
NK	50-100

- · Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- · Other regulations, limitations and prohibitive regulations
- · Substances of very high concern (SVHC) according to REACH, Article 57

107-15-3 ethylenediamine

· 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.

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.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to the hearing organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

### · 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)

ICAO: International Civil Aviation Organisation

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 SVHC: Substances of Very High Concern

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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 - dermal - Category 4

Acute Tox. 1: Acute toxicity - inhalation - Category 1

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

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

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

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 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

 $A quatic\ Chronic\ 3:\ Hazardous\ to\ the\ aquatic\ environment\ -\ long\ -term\ aquatic\ hazard\ -\ Category\ 3$ 

· \* Data compared to the previous version altered.

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