



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 Klarlack matt
- · Article number (product ID.): REZ531
- · 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

Eye Irrit. 2	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
STOT SE 3	H336	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.

· Hazard pictograms





GHS02 GHS07

Printing date 18.12.2019 Revision: 18.12.2019

Trade name: Aerosol 2K Klarlack matt

(Contd. of page 1)

· Signal word Danger

· Hazard-determining components of labelling:

Aliphatisches Polyisocyanat (HDI oligomers, isocyanurate)

acetone

n-butyl acetate

Solvent naphtha (petroleum), light arom.

Reaktionsgemisch von Pentamethyl-piperidyl-sebacat

2,3-epoxypropyl neodecanoate

· Hazard statements

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

H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

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.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell.

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.

EUH204 Contains isocyanates. May produce an allergic reaction.

- · 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 EINECS: 204-065-8 Reg.nr.: 01-2119472128-37-xxxx	dimethyl ether Flam. Gas 1, H220; Press. Gas C, H280	25-<50%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-xxxx	acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	10-<25%
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	10-<25%
		(Contd. on page

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Printing date 18.12.2019 Revision: 18.12.2019

Trade name: Aerosol 2K Klarlack matt

		(Contd. of page 2
CAS: 28182-81-2	Aliphatisches Polyisocyanat (HDI oligomers, isocyanurate)	2.5-<5%
NLP: 500-060-2 Reg.nr.: 01-2119485796-17-xxxx	♦ Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 64742-95-6	Solvent naphtha (petroleum), light arom.	1-<2.5%
EINECS: 265-199-0 Reg.nr.: 01-2119455851-35-xxxx	♠ Flam. Liq. 3, H226; ♦ Asp. Tox. 1, H304; ♦ Aquatic Chronic 2, H411; ♠ Acute Tox. 4, H332; STOT SE 3,	
	Н335-Н336	
CAS: 141-78-6	ethyl acetate	1-<2.5%
EINECS: 205-500-4	🚸 Flam. Liq. 2, H225; 🕔 Eye Irrit. 2, H319; STOT SE 3,	
Reg.nr.: 01-2119475103-46-xxxx	H336	
CAS: 1330-20-7	xylene, mixture of isomers	1-<2.5%
EINECS: 215-535-7	🚸 Flam. Liq. 3, H226; & STOT RE 2, H373; Asp. Tox. 1,	
Reg.nr.: 01-2119488216-32-xxxx	H304; 🕦 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin	
	Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
EC number: 915-687-0	Reaktionsgemisch von Pentamethyl-piperidyl-sebacat	≥0.1-<0.25%
Reg.nr.: 01-2119491304-40-xxxx	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1A, H317	
CAS: 26761-45-5	2,3-epoxypropyl neodecanoate	≥ 0.1-<0.25%
EINECS: 247-979-2 Reg.nr.: 01-2119431597-33-xxxx	♦ Muta. 2, H341; ♦ Aquatic Chronic 2, H411; ♦ Skin Sens. 1. H317	

[·] 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.
- \cdot 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. 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.

SECTION 6: Accidental release measures

- $\cdot \textit{ 6.1 Personal precautions, protective equipment and emergency procedures}$
- 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.

(Contd. on page 4)

Printing date 18.12.2019 Revision: 18.12.2019

Trade name: Aerosol 2K Klarlack matt

(Contd. of page 3)

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.

 $\cdot \textit{Information about fire - and explosion protection:} \\$

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.
- \cdot 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

T 1.	1,1 11 1.	. 1 .		•, •	, ,1 1 1
· Ingredients	with limit	values ti	hat reamre	monitoring	at the workplace:
IIISI Carcino	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	rathes ti	nai require	monthor my	at the workplace.

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/m³, 500 ppm

123-86-4 n-butyl acetate

WEL Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm

141-78-6 ethyl acetate

WEL Short-term value: 1468 mg/m³, 400 ppm Long-term value: 734 mg/m³, 200 ppm

1330-20-7 xylene, mixture of isomers

WEL Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm

Sk; BMGV

(Contd. on page 5)

Printing date 18.12.2019 Revision: 18.12.2019

Trade name: Aerosol 2K Klarlack matt

(Contd. of page 4)

· Ingredients with biological limit values:

1330-20-7 xylene, mixture of isomers

BMGV 650 mmol/mol creatinine

Medium: urine

Sampling time: post shift 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 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:

Safety glasses



Tightly sealed goggles

SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Aerosol

Colour: According to product specification

· Odour: Characteristic

(Contd. on page 6)

Printing date 18.12.2019 Revision: 18.12.2019

Trade name: Aerosol 2K Klarlack matt

	(Contd. of page
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition Melting point/freezing point: Initial boiling point and boiling range	Undetermined. v: -24.9°C
· Flash point:	<0°C Without propellant gas.
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	235 ℃
· 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: Upper:	1.2 Vol % 18.6 Vol %
· Vapour pressure at 20 °C:	3,400 hPa
 Density: Relative density Vapour density Evaporation rate 	Not determined. Not determined. Not determined. Not applicable.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
· Solvent content: Organic solvents: VOC (EU)	81.4 % With propellant gas. Content given by weight. 81.41 %
Solids content: • 9.2 Other information	18.6 % 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.
- \cdot 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

Printing date 18.12.2019 Revision: 18.12.2019

Trade name: Aerosol 2K Klarlack matt

(Contd. of page 6)

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)

Inhalative LC50/4 h >29.1 mg/l

- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · 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

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.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water 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

(Contd. on page 8)

Printing date 18.12.2019 Revision: 18.12.2019

Trade name: Aerosol 2K Klarlack matt

(Contd. of page 7)

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

ADR IMDG IATA 14.3 Transport hazard class(es)	UN1950 1950 AEROSOLS AEROSOLS AEROSOLS, flammable
14.3 Transport hazard class(es)	AEROSOLS
IMDG IATA 14.3 Transport hazard class(es)	AEROSOLS
· IATA · 14.3 Transport hazard class(es)	
· IATA · 14.3 Transport hazard class(es) · ADR	AEROSOLS, flammable
ADR	
Class Label	2 5F Gases. 2.1
IMDG, IATA	2.1
2	
Class	2.1
Label	2.1
14.4 Packing group	**
· ADR, IMDG, IATA	Void
	not classified
14.5 Environmental hazards:	N.
Marine pollutant:	No
14.6 Special precautions for user	Warning: Gases.
Danger code (Kemler):	-
The state of the s	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 litt
	Category A. For AEROSOLS with a capacity above 1 litt Category B. For WASTE AEROSOLS: Category C, Cle
	of living quarters.
Segregation Code	of tiving quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre
Segreguion Couc	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.

Printing date 18.12.2019 Revision: 18.12.2019

Trade name: Aerosol 2K Klarlack matt

	(Contd. of page 8)
· 14.7 Transport in bulk according to An	nex II of
Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	IL
\cdot Excepted quantities (EQ)	Code: E0
• • • • •	Not permitted as Excepted Quantity
· Transport category	2
· Tunnel restriction code	D
·IMDG	
· Limited quantities (LQ)	IL
\cdot Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity

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

· UN "Model Regulation":

- · 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.

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.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

(Contd. on page 10)

Printing date 18.12.2019 Revision: 18.12.2019

Trade name: Aerosol 2K Klarlack matt

(Contd. of page 9)

H336 May cause drowsiness or dizziness.

H341 Suspected of causing genetic defects.

H373 May cause damage to 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

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 - inhalation - Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation - Category 1A

Muta. 2: Germ cell mutagenicity – Category 2

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

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

* * Data compared to the previous version altered.