



Revision: 28.03.2017 Printing date 28.03.2017

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

- · 1.1 Product identifier
- · Trade name: Aerosol 2K Rapid Klarlack (n) (mit A)
- · Article number (product ID.): REZ334
- · 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

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.

- · 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

· Signal word Danger

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· Hazard-determining components of labelling:

Aliphatisches Polyisocyanat

acetone

n-butyl acetate

Solvent naphtha (petroleum), light arom. benzene < 0,1 %

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers

· 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.

· 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. 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.

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	dimethyl ether	25-<50%
EINECS: 204-065-8	📀 Flam. Gas 1, H220; 🥎 Press. Gas C, H280	
Reg.nr.: 01-2119472128-37-xxxx		
CAS: 67-64-1	acetone	10-<25%
EINECS: 200-662-2	📀 Flam. Liq. 2, H225; 🕩 Eye Irrit. 2, H319; STOT SE 3, H336	
Reg.nr.: 01-2119471330-49-xxxx		
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CAS: 123-86-4	n-butyl acetate	10 - < 2
EINECS: 204-658-1 Reg.nr.: 01-2119485493-29-xxxx	♦ Flam. Liq. 3, H226; ♦ STOT SE 3, H336	
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-xxxx	xylene, mixture of isomers 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	5-<10
CAS: 28182-81-2	Aliphatisches Polyisocyanat ♦ Skin Sens. 1, H317	5-<10
CAS: 110-12-3 EINECS: 203-737-8	5-methylhexan-2-one Flam. Liq. 3, H226;	1-<2.5
CAS: 100-41-4 EINECS: 202-849-4	ethylbenzene Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Aquatic Chronic 3, H412	1-<2.5
CAS: 108-10-1 EINECS: 203-550-1 Reg.nr.: 01-2119473980-30-xxxx	4-methylpentan-2-one	1-<2.5
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom. benzene < 0,1 % Flam. Liq. 3, H226; SASP. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	1-<2.5
CAS: 53880-05-0 EINECS: 204-658-1	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers (i) Skin Sens. 1, H317	<1%
CAS: 123-54-6 EINECS: 204-634-0	pentane-2,4-dione ♦ Flam. Liq. 3, H226; ♦ Acute Tox. 3, H311; Acute Tox. 3, H331; ↑ Acute Tox. 4, H302	<1%

[·] 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
- · 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:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Cool container whit water

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture Can form explosive gas-air mixtures.

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· 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 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:

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· 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.

Take note of emission threshold.

Use only in well ventilated areas.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

· 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:

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Protect from heat and direct sunlight.
- · 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/m³, 500 ppm Long-term value: 766 mg/m³, 400 ppm

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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	
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	
110-12-3 5-methylhexan-2-one	
WEL Short-term value: 475 mg/m³, 100 ppm	
Long-term value: 95 mg/m³, 20 ppm	
Sk	
108-10-1 4-methylpentan-2-one	
WEL Short-term value: 416 mg/m³, 100 ppm	
Long-term value: 208 mg/m³, 50 ppm	
Sk, BMGV	
· 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	
108-10-1 4-methylpentan-2-one	
BMGV 20 μmol/L	
Medium: urine	
Sampling time: post shift	
Parameter: 4-methylpentan-2-one	

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · 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.

Do not inhale gases / fumes / aerosols.

· 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.

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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 chemical properties

· General Information

· 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: In use, may form flammable/explosive vapour-air mixture.

· Explosion limits:

 Lower:
 1.2 Vol %

 Upper:
 18.6 Vol %

· Vapour pressure at 20 °C: 3400 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.

· Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

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· Solvent content:		
Organic solvents:	78.4 %	
	With propellant gas. Content given by weight.	
VOC (EU)	78.42 %	
Solids content:	21.1 %	
· 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.
- \cdot 10.3 Possibility of hazardous reactions Reacts with acids, alkalis and oxidising agents.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: Possible in traces.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 1	· LD/LC50 values relevant for classification:		
1330-20-7	1330-20-7 xylene, mixture of isomers		
Oral	LD50	4300 mg/kg (rat)	
Dermal	LD50	2000 mg/kg (rabbit)	
	LC50/4 h	21.7 mg/l (rat)	

- · 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 to	xicity:
1330-20-7	xylene, mixture of isomers
LC50/96h	1570 μg/l (Cyprinus carpio) Median

· 12.2 Persistence and degradability No further relevant information available.

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- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 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.

- · 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.

SECTION 1	l4: Transport i	nformation

· 14.1 U	UN-Nui	nber
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· 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 2,1

· IMDG, IATA



· Class
 · Label
 2.1
 2.1

· 14.4 Packing group

· ADR, IMDG, IATA Void not classified

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· 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	SWI Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litro
	Category A. For AEROSOLS with a capacity above 1 litre
	Category B. For WASTE AEROSOLS: Category C, Clea
	of living quarters.
· Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litro
	Segregation as for class 9. Stow "separated from" class
	except for division 1.4. For AEROSOLS with a capacit
	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 Ann	ex II of
Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
$\cdot ADR$	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· Transport category	2
Tunnal restriction code	D
· Tunnel restriction code	
· IMDG	
· IMDG · Limited quantities (LQ)	1L
· IMDG	Code: E0
· IMDG · Limited quantities (LQ)	- -

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · 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, 20
- · National regulations:
- · Technical instructions (air):

Class	Share in %
NK	50-100

· Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

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· 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.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

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

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

· Department issuing SDS: Product safety department

· Contact: Hr. Hamberger

· 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. 3: Acute toxicity - Category 3 Acute Tox. 4: Acute toxicity - 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

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 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.