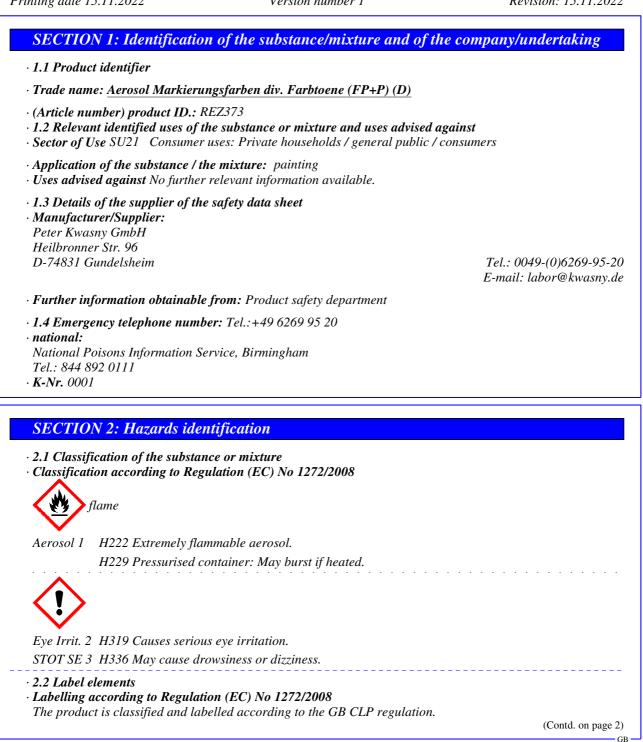


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- · **PBT:** Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

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

· Dangerous components:

· Dangerous components:		
CAS: 67-64-1	acetone	10-<25%
EINECS: 200-662-2	🚯 Flam. Liq. 2, H225; 🚯 Eye Irrit. 2, H319; STOT SE 3,	
Reg.nr.: 01-2119471330-49-xxxx	H336, EUH066	
CAS: 115-10-6	dimethyl ether	10-<25%
EINECS: 204-065-8	🛞 Flam. Gas 1A, H220; Press. Gas (Comp.), H280, EUH018	
Reg.nr.: 01-2119472128-37-xxxx		
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CAS: 141-78-6	ethyl acetate	ntd. of page 2 10-<25%
EINECS: 205-500-4 Reg.nr.: 01-2119475103-46-xxxx	� Flam. Liq. 2, H225; � Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	
	propane 🚸 Flam. Gas 1A, H220; Press. Gas (Comp.), H280, EUH018	10-<25%
	butane (containing ≤ 0,1 % butadiene (203-450-8))	5-<10%
Reg.nr.: 01-2119471843-32-xxxx	EC927-241-2 Naphtha (petroleum), hydrotreated light (<0,1% benzene) Flam. Liq. 3, H226; Stor Tox. 1, H304; STOT SE 3, H336; Aquatic Chronic 3, H412, EUH066	5-<10%
	isobutane (containing $\leq 0,1$ % butadiene (203-450-8)) Flam. Gas 1A, H220; Press. Gas (Comp.), H280, EUH018	2.5-<5%
	2-methoxy-1-methylethyl acetate 🚸 Flam. Liq. 3, H226	1-<2.5%

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- · 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.
- \cdot 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

- 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.

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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

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

67-64-1 acetone

WEL Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm

115-10-6 dimethyl ether

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

141-78-6 ethyl acetate

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

106-97-8 butane (containing ≤0,1 % butadiene (203-450-8))

WEL Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)

108-65-6 2-methoxy-1-methylethyl acetate

WEL Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm Sk

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

- Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as 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.

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^{· 8.2} Exposure controls

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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.

· 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 • **Eye/face protection** Safety glasses



Tightly sealed goggles

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical p	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	-44 °C	
· Flammability	Not applicable.	
· Lower and upper explosion limit		
· Lower:	1.7 Vol % (74-98-6 propane)	
· 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.	
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Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	3,600 hPa (74-98-6 propane)
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 an	d
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.
	Not determined.
Solvent content:	
Organic solvents:	89.6 %
0	With propellant gas. Content given by weight.
VOC (EU)	89.64 %
Solids content:	9.2 %
Change in condition	
Evaporation rate	Not applicable.
Information with regard to physical hazard classe	25
Explosives	Void
Flammable gases	Void
Aerosols	Extremely flammable aerosol. Pressurised container
	May burst if heated.
Oxidising gases	Void
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.
- \cdot 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

 \cdot 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

· Serious eye damage/irritation Causes serious eye irritation.

• STOT-single exposure May cause drowsiness or dizziness.

· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

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.
- · 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 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.

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		
$\cdot ADR$	1950 AEROSOLS	
·IMDG	AEROSOLS	
·IATA	AEROSOLS, flammable	
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Trade name: Aerosol Markierungsfarben div. Farbtoene (FP+P) (D) (Contd. of page 7) · 14.3 Transport hazard class(es) ·ADR · Class 2 5F Gases. · Label 2.1 · IMDG, IATA 2.1 Gases. · Class · Label 2.1 · 14.4 Packing group Void · ADR, IMDG, IATA not classified · 14.5 Environmental hazards: • Marine pollutant: No · 14.6 Special precautions for user Warning: Gases. · Hazard identification number (Kemler code): not classified · EMS Number: F-D, S-U· Stowage Code SW1 Protected from sources of heat. SW2 Clear of living quarters. · Segregation Code SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 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 Maritime transport in bulk according to IMO instruments Not applicable. • Transport/Additional information: · ADR \cdot Limited quantities (LQ) lLCode: E0 · Excepted quantities (EQ) Not permitted as Excepted Quantity · Transport category 2 · Tunnel restriction code D · IMDG · Limited quantities (LQ) lLCode: E0 • Excepted quantities (EQ) Not permitted as Excepted Quantity (Contd. on page 9)

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· 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 2 (Self-assessment): 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.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H412 Harmful to aquatic life with long lasting effects.
- EUH018 In use may form flammable/explosive vapour-air mixture.

EUH066 Repeated exposure may cause skin dryness or cracking.

· 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 relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDC: International Magicine Code for Dangerous Coods

- 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)
- 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, Cas (Comp.): Cases u
- Press. Gas (Comp.): Gases under pressure Compressed gas Flam. Liq. 2: Flammable liquids – Category 2

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Flam. Liq. 3: Flammable liquids – Category 3 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Asp. Tox. 1: Aspiration hazard – Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 • * Data compared to the previous version altered.