

Printing date 08.12.2023

Version number 1

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

- · 1.1 Product identifier
- · Trade name: Aerosol Marine Unterwasserfarben, diff. colors
- · (Article number) product ID.: REZ1025
- · 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.
- $\cdot$  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

flame

Aerosol 1

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

health hazard

STOT RE 2

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

2 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



H315 Causes skin irritation.

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

Printing date 08.12.2023 Version number 1 Revision: 08.12.2023 Trade name: Aerosol Marine Unterwasserfarben, diff. colors (Contd. of page 1) Eye Irrit. 2 H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation. STOT SE 3 H336 May cause drowsiness or dizziness. H304 May be fatal if swallowed and enters airways. Asp. Tox. 1 · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation. · Hazard pictograms GHS02 GHS07 GHS08 GHS09 · Signal word Danger · Hazard-determining components of labelling: xylene, mixture of isomers Solvent naphtha (petroleum), light arom. benzene < 0,1 % butanone ethylbenzene · Hazard statements H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H373 May cause damage to the lung and the hearing organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. · Precautionary statements If medical advice is needed, have product container or label at hand. P101 P102 Keep out of reach of children. P103 Read carefully and follow all instructions. 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. P260 Do not breathe 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. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P391 Collect spillage. *P410+P412* Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container in accordance with local/regional/national/international P501 regulations. · Additional information: Without adequate ventilation, explosive atmosphere/gas mix may be created. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. Information concerning particular hazards for human and environment: 1272/2008/EC,II, 3.2 (Contd. on page 3)

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· 2.3 Other hazards

· Results of PBT and vPvB assessment

· **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:		
CAS: 115-10-6 EINECS: 204-065-8 Reg.nr.: 01-2119472128-37-xxxx	dimethyl ether	25-<50%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43-xxxx	butanone Flam. Liq. 2, H225;  Eye Irrit. 2, H319; STOT SE 3, H336	10-<25%
CAS: 1314-13-2 EINECS: 215-222-5 Reg.nr.: 01-2119463881-32-xxxx	zinc oxide	10-<25%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-xxxx	xylene, mixture of isomers Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	10-<25%
CAS: 64742-95-6 EC number: 918-668-5 Reg.nr.: 01-2119455851-35-xxxx	Solvent naphtha (petroleum), light arom. benzene < 0,1 % ♦ Flam. Liq. 3, H226; ♦ Asp. Tox. 1, H304; ♦ STOT SE 3, H335; STOT SE 3, H336	10-<25%
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35-xxxx	ethylbenzene	2.5-<5%
CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43-xxxx	ethanol 🚸 Flam. Liq. 2, H225; 🚺 Eye Irrit. 2, H319	1-<2.5%
CAS: 1333-86-4 EINECS: 215-609-9 Reg.nr.: no Reach No. availlable	Carbon black substance with a Community workplace exposure limit vording of the listed hazard phrases refer to section 16.	1-<2.5%

## **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; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.

· 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.

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#### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media -
- Suitable extinguishing agents: Cool container whit water
- $\cdot$  5.2 Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · 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 Mount respiratory protective device. 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 section 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.

Keep respiratory protective device available.

*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:

2

- 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.

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Ingredients with limit values that require monitori115-10-6 dimethyl etherWELShort-term value: 958 mg/m³, 500 ppm Long-term value: 766 mg/m³, 400 ppm78-93-3 butanoneWELShort-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, BMGV1330-20-7 xylene, mixture of isomersWELShort-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV100-41-4 ethylbenzeneWELShort-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm Sk64-17-5 ethanolWELLong-term value: 1920 mg/m³, 1000 ppmI333-86-4 Carbon blackWELShort-term value: 1920 mg/m³, 1000 ppmWELShort-term value: 1920 mg/m³, 1000 ppmSK	ng at the workplace:
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WEL         Long-term value: 1920 mg/m³, 1000 ppm           1333-86-4         Carbon black	
1333-86-4 Carbon black	
$w_{EJ} = m_{O} m_{O} m_{I} + m_{I} m_{I}$	
Long-term value: 3.5 mg/m <sup>3</sup>	
Ingredients with biological limit values:	
78-93-3 butanone	
BMGV 70 µmol/L	
Medium: urine	
Sampling time: post shift	
Parameter: butan-2-one	
1330-20-7 xylene, mixture of isomers	
BMGV 650 mmol/mol creatinine	
Medium: urine	
Sampling time: post shift	
Parameter: methyl hippuric acid	

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#### · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.



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

· 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 chemi	cal 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 boil	ing
range	-24.9 °C
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	0.7 Vol % (64742-95-6 Solvent naphtha (petroleum),
	light arom. benzene < 0,1 %)
· Upper:	18.6 Vol % (115-10-6 dimethyl ether)
· Flash point:	<0 °C
• Auto-ignition temperature:	235 °C
• Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
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Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	3,400 hPa (115-10-6 dimethyl ether)
Density and/or relative density	
Relative density	1.008 g/ml
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Aerosol
Important information on protection of health an environment, and on safety.	nd
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation
Explosive properties.	explosive air/vapour mixtures are possible.
	Not determined.
Solvent content:	
Organic solvents:	78.4 %
	With propellant gas. Content given by weight.
VOC (EU)	(<840g/l)
	78.38 %
Solids content:	21.6 %
Change in condition	
Evaporation rate	Not applicable.
Information with regard to physical hazard class	
Explosives	Void
Flammable gases	Void
Aerosols	Extremely flammable aerosol. Pressurised containe
	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

## **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.

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• 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

• 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 • Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Dermal LD50 15,726 mg/kg (rabbit)

Inhalative LC50/4 h 72.1 mg/l

• Skin corrosion/irritation Causes skin irritation.

· Serious eye damage/irritation Causes serious eye irritation.

• STOT-single exposure May cause respiratory irritation. May cause drowsiness or dizziness.

· STOT-repeated exposure

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

• Aspiration hazard May be fatal if swallowed and enters airways.

· 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

• **Remark:** Toxic for 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. Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

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

14.1 UN number or ID number ADR, IMDG, IATA	UN1950
14.2 UN proper shipping name	
ADR	1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS
	AEROSOLS
	AEROSOLS, flammable
14.3 Transport hazard class(es)	
ADR	
Class	2 5F Gases.
Label	2.1
IMDG, IATA	
Class	2.1 Gases.
Label	2.1
14.4 Packing group	
ADR, IMDG, IATA	Void
	not classified
14.5 Environmental hazards:	No
Marine pollutant: Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user Hazard identification number (Kemler code):	Warning: Gases.
	not classified
EMS Number:	F- $D$ , $S$ - $U$
Stowage Code	SW1 Protected from sources of heat.
Segregation Code	SW2 Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of
Segregation Couc	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 Maritime transport in bulk according to IM	10
instruments	Not applicable.

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1L
Code: E0
Not permitted as Excepted Quantity
2
D
1L
Code: E0
Not permitted as Excepted Quantity
UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

## **SECTION 15: Regulatory information**

- $\cdot$  15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture VOC: <840g/l
- · Poisons Act

#### · Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

· Directive 2012/18/EU

- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category
- P3a FLAMMABLE AEROSOLS

E2 Hazardous to the Aquatic Environment

- $\cdot$  Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- $\cdot$  Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

· National regulations:

- Additional classification according to Decree on Hazardous Materials, Annex II: Carcinogenic hazardous material group III (dangerous).
- 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.

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#### Trade name: Aerosol Marine Unterwasserfarben, diff. colors

(Contd. of page 10) The safety data sheet may only be passed on to third parties for the manufacturer's brands. · 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. H319 Causes serious eye irritation. *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. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. EUH018 In use may form flammable/explosive vapour-air mixture. · Department issuing SDS: Product safety department · Abbreviations and acronyms: ADR: Accord relatif au transport international 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 ATE: Acute toxicity estimate values Flam. Gas 1A: Flammable gases - Category 1A Aerosol 1: Aerosols - Category 1 : Aerosols – Category 3 Press. Gas (Comp.): Gases under pressure - Compressed gas Flam. Liq. 2: Flammable liquids - Category 2 Flam. Liq. 3: Flammable liquids - 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 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 • \* Data compared to the previous version altered.