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SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: Aerosol 2K DTM Fueller Hellgrau, Schwarz · (Article number) product ID.: REZ1486 · 1.2 Relevant identified uses of the substance or mixture and uses advised against · Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen) • Application of the substance / the mixture: painting FOR PROFESSIONAL USE ONLY · Uses advised against Consumer uses: Private households / general public / consumers · 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



Aerosol 1

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

environment

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



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

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Trade name: Aerosol 2K DTM Fueller Hellgrau, Schwarz 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 GB CLP regulation. · Hazard pictograms

GHS02	GHS07 GHS09
· Signal wor	d Danger
· Hazard-dei	ermining components of labelling:
	olyisocyanate (HDI oligomers, isocyanurate)
n-butyl ace	
acetone	
Epoxy resir	with an average molecular weight of $700 \le 1200$
Fatty acids	, tall oil, compounds with oleylamine
· Hazard sta	tements
H222 Extre	mely flammable aerosol.
H229 Press	surised container: May burst if heated.
H319 Caus	es serious eye irritation.
H317 May	cause an allergic skin reaction.
H336 May	cause drowsiness or dizziness.
H411 Toxic	to aquatic life with long lasting effects.
· Precaution	ary 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.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P302+P35	1 5 5
P305+P35	1+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+P31	\mathbf{j}
P337+P31	
P391	Collect spillage.
P410+P41	
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
	information:
	equate ventilation, explosive atmosphere/gas mix may be created.
	lazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
	epeated exposure may cause skin dryness or cracking.
	e mixture consists of component(s) of unknown toxicity.
EUH204 C	ontains isocyanates. May produce an allergic reaction.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

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according to 1907/2006/EC,

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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

*

• *Description: Mixture of substances listed below with nonhazardous additions.*

CAS: 115-10-6	dimethyl ether	25-<50%
EINECS: 204-065-8 Reg.nr.: 01-2119472128-37-xxxx	Flam. Gas 1A, H220; Press. Gas (Comp.), H280, EUH018	
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29-xxxx	n-butyl acetate Flam. Liq. 3, H226; (1) STOT SE 3, H336, EUH066	10-<25%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-xxxx	acetone	10-<25%
CAS: 28182-81-2 NLP: 500-060-2 Reg.nr.: 01-2119485796-17-xxxx	Aliphatic polyisocyanate (HDI oligomers, isocyanurate) Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335, EUH204	2.5-<5%
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	2.5-<5%
EC number: 905-588-0 Reg.nr.: 01-2119539452-40-xxxx	Reaction mass of ethylbenzene and xylene 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; Aquatic Chronic 3, H412	2.5-<5%
CAS: 25068-38-6 NLP: 500-033-5 Reg.nr.: No Reach-No. availlable	Epoxy resin with an average molecular weight of 700≤1200 ♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH205	1-<2.5%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29-xxxx	propylene glycol monomethyl ether acetate 🚸 Flam. Liq. 3, H226; 🚸 STOT SE 3, H336	1-<2.5%
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	1-<2.5%
CAS: 1314-13-2 EINECS: 215-222-5 Reg.nr.: 01-2119463881-32-xxxx	zinc oxide	1-<2.5%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29-xxxx	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226; STOT SE 3, H336	<1%
CAS: 85711-55-3 Reg.nr.: 01-2119974148-28-xxxx	Fatty acids, tall oil, compounds with oleylamine STOT RE 2, H373; 😵 Eye Dam. 1, H318; 아 Skin Sens. 1A, H317	<0.1%

• 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

· General information: Immediately remove any clothing soiled by the product.

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• 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.

 \cdot 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

- 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 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.
 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.

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• 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:	
115-10-6 dimethyl ether	
WEL Short-term value: 958 mg/m ³ , 500 ppm	
Long-term value: 766 mg/m ³ , 400 ppm	
123-86-4 n-butyl acetate	
WEL Short-term value: 966 mg/m ³ , 200 ppm	
Long-term value: 724 mg/m ³ , 150 ppm	
67-64-1 acetone	
WEL Short-term value: 3620 mg/m³, 1500 ppm	
Long-term value: 1210 mg/m ³ , 500 ppm	
108-65-6 propylene glycol monomethyl ether acetate	
WEL Short-term value: 548 mg/m ³ , 100 ppm	
Long-term value: 274 mg/m ³ , 50 ppm	
Sk	
1330-20-7 xylene, mixture of isomers	
WEL Short-term value: 441 mg/m ³ , 100 ppm	
Long-term value: 220 mg/m ³ , 50 ppm Sk: BMGV	
108-65-6 2-methoxy-1-methylethyl acetate	
WEL Short-term value: 548 mg/m ³ , 100 ppm Long-term value: 274 mg/m ³ , 50 ppm	
Sk	
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 • Appropriate engineering controls No further data; see section 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.	
Avoid contact with the eyes and skin. • Respiratory protection:	
· Kespiratory 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.

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• 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.
- \cdot 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

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	-24.9 °C	
Flammability	Not applicable.	
Lower and upper explosion limit		
Lower:	1.2 Vol % (123-86-4 n-butyl acetate)	
Upper:	18.6 Vol % (115-10-6 dimethyl ether)	
Flash point:	<0 °C	
Auto-ignition temperature:	235 °C (115-10-6 dimethyl ether)	
Decomposition temperature:	Not determined.	
pH	Not determined.	
Viscosity:		
Kinematic viscosity	Not determined.	
Dynamic:	Not determined.	
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	0.956 g/ml	
Vapour density	Not determined.	

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9.2 Other information	
Appearance:	
Form:	Aerosol
Important information on protection of heal	th and
environment, and on safety.	
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:	65.0 %
-	With propellant gas. Content given by weight.
VOC (EU)	(<840g/l)
	65.01 %
Solids content:	32.6 %
Change in condition	
Evaporation rate	Not applicable.
Information with regard to physical hazard of	classes
Explosives	Void
Flammable gases	Void
Aerosols	Extremely flammable aerosol. Pressurised container
10105015	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 flamm	able
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.
- 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 hazard classes as defined in Regulation (EC) No 1272/2008 • Acute toxicity Based on available data, the classification criteria are not met.

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· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

 Dermal
 LD50
 30,386 mg/kg

 Inhalative
 LC50/4 h
 24 mg/l

· Serious eye damage/irritation Causes serious eye irritation.

- Respiratory or skin sensitisation May cause an allergic skin reaction.
- · 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
- 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.

- · 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 ADR IMDG IATA 	1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS, MARINE POLLUTANT AEROSOLS, flammable

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Trade name: Aerosol 2K DTM Fueller Hellgrau, Schwarz (Contd. of page 8) · 14.3 Transport hazard class(es) ·ADR · Class 2 5F Gases. · Label 2.1 · IMDG 2.1 Gases. · Class 2.1 · Label · IATA 2.1 Gases. · Class · Label 2.1 · 14.4 Packing group · ADR, IMDG, IATA Void not classified · 14.5 Environmental hazards: · Marine pollutant: Yes Symbol (fish and tree) Symbol (fish and tree) · Special marking (ADR): · 14.6 Special precautions for user Warning: Gases. · Hazard identification number (Kemler code): not classified · EMS Number: F-D, S-USW1 Protected from sources of heat. · Stowage 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. · 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.

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· Transport/Additional information:	
·ADR	
· Limited quantities (LQ)	1L
\cdot Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· Transport category	2
• Tunnel restriction code	D
·IMDG	
· Limited quantities (LQ)	1L
\cdot Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· UN "Model Regulation":	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

67-64-1 acetone

· 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

- 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:

• Technical instructions (air):

ClassShare in %NK50-100

• 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. The safety data sheet may only be passed on to third parties for the manufacturer's brands.

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· 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. *H318* Causes serious eye damage. 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. 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. EUH204 Contains isocyanates. May produce an allergic reaction. EUH205 Contains epoxy constituents. May produce an allergic reaction. · 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 Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation - Category 1 Skin Sens. 1A: Skin sensitisation - Category 1A 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

 \cdot * Data compared to the previous version altered.