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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.: REZ709 · 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.

2 environment

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



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

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STOT SE 3	H336 May cause drowsiness or dizziness.
2.2 Label element	
	ding to Regulation (EC) No 1272/2008
-	lassified and labelled according to the GB CLP regulation.
Hazard pictogra	ms
July 1	
<u><u> </u></u>	
$\sim$ $\sim$	
GHS02 GHS	07 GHS09
Signal word Dar	nger
	ning components of labelling:
Aliphatisches Po	olyisocyanat (HDI oligomers, isocyanurate)
acetone	
Epoxy resin with	an average molecular weight of 700≤1200
n-butyl acetate	
Fatty acids, tall	oil, compounds with oleylamine
Hazard statemen	
	flammable aerosol.
	d container: May burst if heated.
	rious eye irritation.
H317 May cause	e an allergic skin reaction.
H336 May cause	e drowsiness or dizziness.
H411 Toxic to a	quatic life with long lasting effects.
Precautionary st	tatements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. N 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+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P3	38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,
	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.
P391	Collect spillage.
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 infor	
	e ventilation, explosive atmosphere/gas mix may be created.
	dous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Warning! Hazar	dous respirable aropicis may be formed when sprayed. Do not breathe spray or mist.
	ns isocyanates. May produce an allergic reaction.

• *PBT:* Not applicable. • *vPvB:* Not applicable.

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## **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 🚸 Flam. Gas 1A, H220; Press. Gas (Comp.), H280, EUH018	25-<50%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-xxxx	acetone Flam. Liq. 2, H225; (1) Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	10-<25%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29-xxxx	n-butyl acetate	5-<10%
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 NLP: 500-060-2 Reg.nr.: 01-2119485796-17-xxxx	Aliphatisches Polyisocyanat (HDI oligomers, isocyanurate) Acute Tox. 4, H312; 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%
CAS: 25068-38-6 NLP: 500-033-5 Reg.nr.: No Reach-No. availlable	<i>Epoxy resin with an average molecular weight of 700≤1200</i> ♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH205	1-<2.5%
CAS: 110-12-3 EINECS: 203-737-8 Reg.nr.: 01-2119472300-51-xxxx	5-methylhexan-2-one Flam. Liq. 3, H226; () Acute Tox. 4, H332	1-<2.5%
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35-xxxx	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: 1314-13-2 EINECS: 215-222-5 Reg.nr.: 01-2119463881-32-xxxx	zinc oxide Aquatic Acute 1, H400; Aquatic Chronic 1, H410	1-<2.5%
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; ♦ Skin Sens. 1A, H317	<0.1%

#### **SECTION 4: First aid measures**

• 4.1 Description of first aid measures

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

#### • After inhalation:

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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.

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- 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 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.
- · 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.

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	ontrol parameters
	dients with limit values that require monitoring at the workplace:
	0-6 dimethyl ether
WEL	Short-term value: 958 mg/m³, 500 ppm Long-term value: 766 mg/m³, 400 ppm
67-64	l-1 acetone
WEL	Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm
123-8	6-4 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
	Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV
	2-3 5-methylhexan-2-one
WEL	Short-term value: 475 mg/m³, 100 ppm Long-term value: 95 mg/m³, 20 ppm Sk
Ingre	dients with biological limit values:
1330-	20-7 xylene, mixture of isomers
BMG	V 650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
Addit	ional information: The lists valid during the making were used as basis.
· Appro	xposure controls opriate engineering controls No further data; see item 7. idual protection measures, such as personal protective equipment ral protective and hygienic measures:

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.

#### · 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

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- 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.

 $\cdot$  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**

9.1 Information on basic 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:	2.6 Vol % (67-64-1 acetone)
Upper:	18.6 Vol % (115-10-6 dimethyl ether)
Flash point:	<0 °C
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	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Aerosol
Important information on protection of health a	nd
environment, and on safety.	
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation o
	explosive air/vapour mixtures are possible.
	Not determined.

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· Solvent content:	
· Organic solvents:	65.3 %
	With propellant gas. Content given by weight.
$\cdot$ VOC (EU)	65.26 %
Solids content:	32.3 %
Change in condition	
Evaporation rate	Not applicable.
Information with regard to physical hazard o	classes
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 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

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Dermal LD50 52,916 mg/kg (rabbit)

Inhalative LC50/4 h 35.1 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.

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## $\cdot$ 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.

14.1 UN number or ID number ADR, IMDG, IATA	UN1950
14.2 UN proper shipping name	
ADR	1950 AEROSOLS, ENVIRONMENTALLY HAZARDOU
IMDG	AEROSOLS, MARINE POLLUTANT
IATA	AEROSOLS, flammable
14.3 Transport hazard class(es) ADR	
Class	2.5F Gases.

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Label	2.1
IMDG	
Class	2.1 Gases.
Label	2.1
IATA	
Class	2.1 Gases.
Label	2.1
14.4 Packing group	
ADR, IMDG, IATA	Void
	not classified
14.5 Environmental hazards:	
Marine pollutant:	Yes Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
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.
Constant Contraction	SW2 Clear of living quarters.
Segregation Code	SG69 For AEROSOLS with a maximum capacity of litre:
	Segregation as for class 9. Stow "separated from" class
	except for division 1.4.
	<i>For AEROSOLS with a capacity above 1 litre:</i>
	Segregation as for the appropriate subdivision of class
	For WASTE AEROSOLS:
	Segregation as for the appropriate subdivision of class
14.7 Maritime transport in bulk according to IM	
instruments	Not applicable.
Transport/Additional information:	
ADR	17
Limited quantities (LQ)	1L Code: E0
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	D
IMDG	
Limited quantities (LQ)	1L

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$\cdot$ Excepted quantities (EQ)	<i>Code: E0</i> <i>Not permitted as Excepted Quantity</i>
· 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
- · 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):

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.
- 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

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· Abbreviations and acronyms:	
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Ag	reement 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 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	
• * Data compared to the previous version altered.	
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