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SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: Aerosol Spray Max marine 2K PUR Topcoat diff. colors · (Article number) product ID.: REZ1023 · 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 Recommended for professional use. · 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



Aerosol 1

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

Acute Tox. 4	H332 Harmful if inhaled.	
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.	
Aquatic Chroni	c 3 H412 Harmful to aquatic life with long lasting effects.	
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de name: Aeroso	ol Spray Max marine 2K PUR Topcoat diff. colors
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2.2 Label eleme	
	nis ding to Regulation (EC) No 1272/2008
	lassified and labelled according to the GB CLP regulation.
Hazard pictogra	
	uns
<u>< {} < {} < !</u>	
GHS02 GHS	507
Signal word Da	nger
	ning components of labelling:
	ocyanate (HDI oligomers, isocyanurate)
n-butyl acetate	
ethyl acetate	
1	(petroleum), light arom. Benzene < 0,1 %
	ntamethyl-4-piperidyl) sebacate
	-pentamethyl-4-piperidylsebacate
Hazard stateme	
	flammable aerosol.
	ed container: May burst if heated.
H332 Harmful ij	
	rious eye irritation.
	e an allergic skin reaction.
	e drowsiness or dizziness.
Precautionary s	o aquatic life with long lasting effects.
P101	If medical advice is needed, have product container or label at hand.
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. N
10	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.
	338 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.
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	8
	te ventilation, explosive atmosphere/gas mix may be created.
	dous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
	ture consists of component(s) of unknown toxicity.
	ins isocyanates. May produce an allergic reaction.
	ncerning particular hazards for human and environment: 1272/2008/EC,II, 3.2
2.3 Other hazar	
	and vPvB assessment
PBT: Not applie	
LDI, $MOL MINING$	

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• **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 Flam. Gas 1A, H220; Press. Gas (Comp.), H280, EUH018	25-<50%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29-xxxx	n-butyl acetate Flam. Liq. 3, H226;	10-<25%
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46-xxxx	ethyl acetate Flam. Liq. 2, H225; () Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	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	5-<10%
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-<2.5%
CAS: 64742-95-6 EINECS: 265-199-0 Reg.nr.: 01-2119486773-24-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	1-<2.5%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-xxxx	acetone Flam. Liq. 2, H225;	<1%
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	<1%
CAS: 41556-26-7 EINECS: 255-437-1 Reg.nr.: no Reach-No. availlable	Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317	<i>≥</i> 0.25-<1%
CAS: 82919-37-7 EINECS: 280-060-4 Reg.nr.: no Reach-No. availlable	methyl 1,2,2,6,6-pentamethyl-4-piperidylsebacate Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317 wording of the listed hazard phrases refer to section 16.	<i>≥</i> 0.25-<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.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- 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.

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Safety data sheet

according to 1907/2006/EC, Article 31

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• 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: 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: 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.
- 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
	Short-term value: 958 mg/m ³ , 500 ppm
WEL	Long-term value: 766 mg/m ³ , 400 ppm
123-8	6-4 n-butyl acetate
	Short-term value: 966 mg/m ³ , 200 ppm
WLL	Long-term value: 724 mg/m ³ , 150 ppm
141-7	8-6 ethyl acetate
	Short-term value: 1468 mg/m ³ , 400 ppm
,, LL	Long-term value: 734 mg/m ³ , 200 ppm
108-6	5-6 2-methoxy-1-methylethyl acetate
	Short-term value: 548 mg/m ³ , 100 ppm
	Long-term value: 274 mg/m ³ , 50 ppm
	Sk
67-64	-1 acetone
WEL	Short-term value: 3620 mg/m³, 1500 ppm
	Long-term value: 1210 mg/m³, 500 ppm
1330-	20-7 xylene, mixture of isomers
WEL	Short-term value: 441 mg/m³, 100 ppm
	Long-term value: 220 mg/m ³ , 50 ppm
	Sk; BMGV
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.
	xposure controls
	ppriate engineering controls No further data; see section 7.
Indivi	idual protection measures, such as personal protective equipment

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· 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.

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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.
- · 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	0.873 g/ml					
Vapour density	Not determined.					

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9.2 Other information	
Appearance:	
Form:	Aerosol
Important information on protection of heal	lth and
environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation
	explosive air/vapour mixtures are possible.
	Not determined.
Solvent content:	
Organic solvents:	72.7 %
-	With propellant gas. Content given by weight.
VOC (EU)	(<840g/l)
	72.71 %
Solids content:	9.3 %
Change in condition	
Evaporation rate	Not applicable.
Information with regard to physical hazard	classes
Explosives	Void
Flammable gases	Void
Aerosols	Extremely flammable aerosol. Pressurised contained
	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	
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

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

• Acute toxicity Harmful if inhaled.

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· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Inhalative LC50/4 h 10.8 mg/l (rat)

· 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.

 \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: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Harmful to 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.

• *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 AEROSOLS AEROSOLS, flammable, containing substances in Division 6.1, Packing Group III
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[·] Uncleaned packaging:

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· 14.3 Transport hazard class(es)	
ADR	
· Class	2 5TF Gases.
· Class · Label	2.1+6.1
· IMDG	
· Class	2.1 Gases.
· Label	2.1/6.1
Class	2.1 Gases.
· Label	2.1 (6.1)
· 14.4 Packing group · ADR, IMDG, IATA	Void not classified
	noi classifica
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Hazard identification number (Kemler code):	Warning: Gases. -
· EMS Number:	not classified F-D,S-U
· EMS Number: · Stowage Code	F-D,S-U SW1 Protected from sources of heat.
Sidning Court	SW11 Forcered from sources of near. SW22 For AEROSOLS with a maximum capacity of litre: Category A. For AEROSOLS with a capacity abov 1 litre: Category B. For WASTE AEROSOLS: Categor C, 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. 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	
instruments	Not applicable.

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· Transport/Additional information:		
·ADR		
· Limited quantities (LQ)	120 ml	
\cdot Excepted quantities (EQ)	Code: E0	
	Not permitted as Excepted Quantity	
· Transport category	1	
· Tunnel restriction code	D	
· IMDG		
· Limited quantities (LQ)	1L	
\cdot Excepted quantities ($\widetilde{E}Q$)	Code: E0	
· · · · · · · ·	Not permitted as Excepted Quantity	
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1 (6.1)	

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

- \cdot 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 1 (Self-assessment): slightly 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.

· Relevant phrases

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

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Trade	name:	Aerosol	Spray	Max	marine	2K	PUR	Topcoat	diff.	colors
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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.	
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.	
	3 In use may form flammable/explosive vapour-air mixture.	
	6 Repeated exposure may cause skin dryness or cracking.	
EUH204	Contains isocyanates. May produce an allergic reaction.	
Departm	nent issuing SDS: Product safety department	
	ations and acronyms:	
	ord relatif au transport international des marchandises dangereuses par route (European	a Agreement Concerning th
	nal Carriage of Dangerous Goods by Road)	
	ternational Maritime Code for Dangerous Goods	
	rnational Air Transport Association bally Harmonised System of Classification and Labelling of Chemicals	
	European Inventory of Existing Commercial Chemical Substances	
	European List of Notified Chemical Substances	
CAS: Chen	nical Abstracts Service (division of the American Chemical Society)	
	hal concentration, 50 percent	
	hal dose, 50 percent	
	istent, Bioaccumulative and Toxic	
	y Persistent and very Bioaccumulative e toxicity estimate values	
	1A: Flammable gases – Category 1A	
	Aerosols – Category 1	
: Aerosols	- Category 3	
	s (Comp.): Gases under pressure – Compressed gas	
	2: Flammable liquids – Category 2	
	3: Flammable liquids – Category 3 4: Acute toxicity – Category 4	
	2: Skin corrosion/irritation – Category 2	
	2: Serious eye damage/eye irritation – Category 2	
	1: Skin sensitisation – Category 1	
	3: Specific target organ toxicity (single exposure) – Category 3	
	2: Specific target organ toxicity (repeated exposure) – Category 2	
	1: Aspiration hazard – Category 1	
	cute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1	
лацанс CI	hronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1	
	hronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3	