

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/27/2017

Reviewed on 04/27/2017

1 Identification

- **Product identifier**
- **Trade name:** Aerosol 2K Acrylfueller grau
- **Article number (product ID.):** REZ209
- **Application of the substance / the mixture**
Paintwork
FOR PROFESSIONAL USE ONLY
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Importer:
Peter Kwasny, Inc.
400 Oser Ave
Suite 1650
Hauppauge, NY 11788
- Manufacturer:
Peter Kwasny GmbH
Heilbronnerstr. 96
D-74831 Gundelsheim
- **Information department:** Product safety department
- **Emergency telephone number:** Tel.: 352-323-3500

Tel.: 0049-(0)6269-95-20

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 GHS04 Flame, Gas cylinder

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H336 May cause drowsiness or dizziness.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

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· **Hazard pictograms**

GHS02 GHS04 GHS07 GHS08

· **Signal word** *Danger*· **Hazard-determining components of labeling:**

Aliphatisches Polyisocyanat
acetone
ethylbenzene
n-butyl acetate
Alkylammoniumsalz
hexamethylene-di-isocyanate

· **Hazard statements**

Extremely flammable aerosol. Pressurized container: May burst if heated.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of causing cancer.
May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/eye protection.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
IF ON SKIN: Wash with plenty of water.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER/doctor if you feel unwell.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:** Without adequate ventilation, explosive atmosphere/gas mix may be created.· **Classification system:**· **NFPA ratings (scale 0 - 4)**

Health = 1
Fire = 4
Reactivity = 3

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· HMIS-ratings (scale 0 - 4)

HEALTH	1	Health = 1
FIRE	4	Fire = 4
REACTIVITY	3	Reactivity = 3

· Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:

CAS: 115-10-6 Reg.nr.: 01-2119472128-37-xxxx	dimethyl ether	25-<50%
CAS: 67-64-1 Reg.nr.: 01-2119471330-49-xxxx	acetone	10-<25%
CAS: 123-86-4	n-butyl acetate	10-<25%
CAS: 28182-81-2	Aliphatisches Polyisocyanat	2.5-<5%
CAS: 1330-20-7 Reg.nr.: 01-2119488216-32-xxxx	xylene	2.5-<5%
CAS: 108-65-6 Reg.nr.: 01-2119475791-29-xxxx	2-methoxy-1-methylethyl acetate	1-<2.5%
CAS: 64742-95-6	Solvent naphtha (petroleum), light arom. benzene < 0,1 %	1-<2.5%
CAS: 100-41-4	ethylbenzene	<1%
CAS: 147900-93-4	Alkylammoniumsalz	<1%
CAS: 103-65-1	propylbenzene	<1%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

· Description of first aid measures

· 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.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** If symptoms persist consult doctor.

· Information for doctor:

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

· Extinguishing media -

· **Suitable extinguishing agents:** Cool container with water.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

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- **Special hazards arising from the substance or mixture** Can form explosive gas-air mixtures.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **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.
- **Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- **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.
- **Protective Action Criteria for Chemicals**

· PAC-1:

115-10-6	dimethyl ether	3,000 ppm
67-64-1	acetone	200 ppm
123-86-4	n-butyl acetate	5 ppm
7779-90-0	trizinc bis(orthophosphate)	12 mg/m3
28182-81-2	Aliphatisches Polyisocyanat	7.8 mg/m3
1330-20-7	xylene	130 ppm
108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
95-63-6	1,2,4-trimethylbenzene	140 ppm
100-41-4	ethylbenzene	33 ppm
108-67-8	mesitylene	140 ppm
103-65-1	propylbenzene	3.7 ppm
1314-13-2	zinc oxide	10 mg/m3
822-06-0	hexamethylene-di-isocyanate	0.018 ppm

· PAC-2:

115-10-6	dimethyl ether	3800* ppm
67-64-1	acetone	3200* ppm
123-86-4	n-butyl acetate	200 ppm
7779-90-0	trizinc bis(orthophosphate)	36 mg/m3
28182-81-2	Aliphatisches Polyisocyanat	86 mg/m3
1330-20-7	xylene	920* ppm
108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
95-63-6	1,2,4-trimethylbenzene	360 ppm
100-41-4	ethylbenzene	1100* ppm
108-67-8	mesitylene	360 ppm
103-65-1	propylbenzene	41 ppm
1314-13-2	zinc oxide	15 mg/m3
822-06-0	hexamethylene-di-isocyanate	0.2 ppm

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· PAC-3:		
115-10-6	dimethyl ether	7200* ppm
67-64-1	acetone	5700* ppm
123-86-4	n-butyl acetate	3000* ppm
7779-90-0	trizinc bis(orthophosphate)	220 mg/m3
28182-81-2	Aliphatisches Polyisocyanat	510 mg/m3
1330-20-7	xylene	2500* ppm
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
95-63-6	1,2,4-trimethylbenzene	480 ppm
100-41-4	ethylbenzene	1800* ppm
108-67-8	mesitylene	480 ppm
103-65-1	propylbenzene	240 ppm
1314-13-2	zinc oxide	2,500 mg/m3
822-06-0	hexamethylene-di-isocyanate	3 ppm

7 Handling and storage

· Handling:

· Precautions for safe handling

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Take note of emission threshold.

Use only in well ventilated areas.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

· Information about protection against explosions and fires:

Do not spray on a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Pressurized 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.

· Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurized containers.

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions: Protect from heat and direct sunlight.

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Control parameters

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

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

115-10-6 dimethyl ether	
WEEL	Long-term value: 1000 ppm

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67-64-1 acetone

PEL	Long-term value: 2400 mg/m ³ , 1000 ppm
REL	Long-term value: 590 mg/m ³ , 250 ppm
TLV	Short-term value: 1187 mg/m ³ , 500 ppm
	Long-term value: 594 mg/m ³ , 250 ppm
	BEI

123-86-4 n-butyl acetate

PEL	Long-term value: 710 mg/m ³ , 150 ppm
REL	Short-term value: 950 mg/m ³ , 200 ppm
	Long-term value: 710 mg/m ³ , 150 ppm
TLV	Short-term value: 712 mg/m ³ , 150 ppm
	Long-term value: 238 mg/m ³ , 50 ppm

1330-20-7 xylene

PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 655 mg/m ³ , 150 ppm
	Long-term value: 435 mg/m ³ , 100 ppm
TLV	Short-term value: 651 mg/m ³ , 150 ppm
	Long-term value: 434 mg/m ³ , 100 ppm
	BEI

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

WEEL	Long-term value: 50 ppm
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100-41-4 ethylbenzene

PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 545 mg/m ³ , 125 ppm
	Long-term value: 435 mg/m ³ , 100 ppm
TLV	Long-term value: 87 mg/m ³ , 20 ppm
	BEI

· Ingredients with biological limit values:**67-64-1 acetone**

BEI	50 mg/L
	Medium: urine
	Time: end of shift
	Parameter: Acetone (nonspecific)

1330-20-7 xylene

BEI	1.5 g/g creatinine
	Medium: urine
	Time: end of shift
	Parameter: Methylhippuric acids

100-41-4 ethylbenzene

BEI	0.7 g/g creatinine
	Medium: urine
	Time: end of shift at end of workweek
	Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
	-
	Medium: end-exhaled air
	Time: not critical
	Parameter: Ethyl benzene (semi-quantitative)

· **Additional information:** The lists that were valid during the creation were used as basis.

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- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

- **Breathing equipment:**

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.

- **Protection of hands:**



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 through 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 protection:**



Tightly sealed goggles

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Aerosol

Color: According to product specification

- **Odor:** Characteristic

- **Odor threshold:** Not determined.

- **pH-value:** Not determined.

- **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Not applicable, as aerosol.

- **Flash point:** <0 °C (<32 °F)
without propellants

- **Flammability (solid, gaseous):** Not applicable.

- **Ignition temperature:** 235 °C (455 °F)

- **Decomposition temperature:** Not determined.

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· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	In use, may form flammable/explosive vapour-air mixture.
· Explosion limits:	
Lower:	1.2 Vol %
Upper:	18.6 Vol %
· Vapor pressure at 20 °C (68 °F):	3400 hPa (2550 mm Hg)
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	64.1 %
	with propellants. Percentage by weight
VOC(EU)	64.06 %
Solids content:	35.6 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** Reacts with acids, alkalis and oxidizing agents.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Possible in traces.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

7779-90-0 trizinc bis(orthophosphate)

Oral	LD50	>5000 mg/kg (rat)
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64742-95-6 Solvent naphtha (petroleum), light arom. benzene < 0,1 %

Oral	LD50	>6800 mg/kg (rat)
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Dermal	LD50	>3400 mg/kg (rab)
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Inhalative	LC50/4 h	>10.2 mg/l (rat)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.

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- **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

1330-20-7	xylene	3
100-41-4	ethylbenzene	2B

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

7779-90-0 trizinc bis(orthophosphate)	
LC50/96h	5100 µg/l (Oncorhynchus mykiss (Forelle))
EC50	<1.7 mg/l (daphnia)
64742-95-6 Solvent naphtha (petroleum), light arom. benzene < 0,1 %	
EC50	19 mg/l (Pseudokirchneriella subcapitata) (OECD-PrüfRL 201 96h)
	6.14 mg/l (daphnia) (48h)

- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (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
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number	
· DOT, ADR, IMDG, IATA	UN1950
· UN proper shipping name	
· DOT	Aerosols, flammable
· ADR	1950 Aerosols, ENVIRONMENTALLY HAZARDOUS
· IMDG	AEROSOLS (trizinc bis(orthophosphate), Solvent naphtha (petroleum), light arom. benzene < 0,1 %), MARINE POLLUTANT
· IATA	AEROSOLS, flammable
· Transport hazard class(es)	
· DOT	
	
· Class	2.1
· Label	2.1
· ADR	
	 
· Class	2 5F Gases
· Label	2.1
· IMDG	
	 
· Class	2.1
· Label	2.1
· IATA	
	
· Class	2.1
· Label	2.1
· Packing group	
· DOT	Void
· ADR, IMDG, IATA	Void not classified

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· Environmental hazards:	Product contains environmentally hazardous substances: trizinc bis(orthophosphate)
· Marine pollutant:	Yes
· Special marking (ADR):	Symbol (fish and tree)
· Special precautions for user	Warning: Gases
· Danger code (Kemler):	-
· EMS Number:	not classified
· Stowage Code	F-D,S-U
· Segregation Code	SW1 Protected from sources of heat. 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. 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.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

7779-90-0	trizinc bis(orthophosphate)
1330-20-7	xylene
108-65-6	2-methoxy-1-methylethyl acetate
95-63-6	1,2,4-trimethylbenzene
100-41-4	ethylbenzene
1314-13-2	zinc oxide
822-06-0	hexamethylene-di-isocyanate

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· TSCA (Toxic Substances Control Act):

115-10-6	dimethyl ether
67-64-1	acetone
123-86-4	n-butyl acetate
7779-90-0	trizinc bis(orthophosphate)
28182-81-2	Aliphatisches Polyisocyanat
1330-20-7	xylene
108-65-6	2-methoxy-1-methylethyl acetate
95-63-6	1,2,4-trimethylbenzene
100-41-4	ethylbenzene
108-67-8	mesitylene
147900-93-4	Alkylammoniumsalz
103-65-1	propylbenzene
1314-13-2	zinc oxide
822-06-0	hexamethylene-di-isocyanate

· Proposition 65**· Chemicals known to cause cancer:**

100-41-4	ethylbenzene
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· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.	
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· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.	
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· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.	
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· Cancerogenity categories**· EPA (Environmental Protection Agency)**

67-64-1	acetone	I
7779-90-0	trizinc bis(orthophosphate)	D, I, II
1330-20-7	xylene	I
95-63-6	1,2,4-trimethylbenzene	II
100-41-4	ethylbenzene	D
108-67-8	mesitylene	II
1314-13-2	zinc oxide	D, I, II

· TLV (Threshold Limit Value established by ACGIH)

67-64-1	acetone	A4
1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3

· MAK (German Maximum Workplace Concentration)

100-41-4	ethylbenzene	3A
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· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.	
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· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

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· **Hazard pictograms**

GHS02 GHS04 GHS07 GHS08

· **Signal word** *Danger*· **Hazard-determining components of labeling:**

Aliphatisches Polyisocyanat
acetone
ethylbenzene
n-butyl acetate
Alkylammoniumsalz
hexamethylene-di-isocyanate

· **Hazard statements**

Extremely flammable aerosol. Pressurized container: May burst if heated.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of causing cancer.
May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/eye protection.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
IF ON SKIN: Wash with plenty of water.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER/doctor if you feel unwell.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

· **Department issuing SDS:** Product safety department

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Safety Data Sheet

acc. to OSHA HCS

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Trade name: Aerosol 2K Acrylfueller grau

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· **Date of preparation / last revision** 04/27/2017 / -

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Aerosol 1: Aerosols – Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

· *** Data compared to the previous version altered.**