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SECTION 1: Identi	ification of the substance/mixture and of the company/undertaking
· 1.1 Product identifier	
· Trade name: <u>Aerosol 1</u>	K Epoxy Roststopp-Grundierung diff. colors
 Article number (production of the second seco	rt ID.): REZ886 uses of the substance or mixture and uses advised against
	tance / the mixture: painting o further relevant information available.
• 1.3 Details of the supple • Manufacturer/Supplier Radex-Europe Ltd. Uriekstes 3 Riga, LV-1005 Latvija Tel.: +37167387778	ier of the safety data sheet :
· Further information ob	tainable from: Product safety department
 1.4 Emergency telephon national: National Poisons Inform Tel.: 844 892 0111 K-Nr. 0040 	ne number: TEL.: 112 nation Service, Birmingham
SECTION 2: Hazar	7 • 7 _ >• 6• _ >•
• 2.1 Classification of the • Classification according GHS02 flame	g to Regulation (EC) No 1272/2008
Aerosol 1 H222-H22 GHS07	9 Extremely flammable aerosol. Pressurised container: May burst if heated.
• Onso/	
Eye Irrit. 2 H319	Causes serious eye irritation.
Skin Sens. 1 H317	May cause an allergic skin reaction.
	May cause drowsiness or dizziness. Regulation (EC) No 1272/2008 I and labelled according to the CLP regulation.
GHS02 GHS07	
Signal word Danger Hazard-determining co	moments of labelling.
acetone	mponenis of ubelling: enol-A-(epichlorhydrin) epoxy resin (number average molecular weight 700-1100

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ade name: Ae	erosol 1K Epoxy Roststopp-Grundierung diff. colors
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n-butyl acet	
Fatty Acids	s, C18-unsatd. dimers, reaction products with N,N-dimethyl-1,3- propanediamine and 1,
propanedia	mine
Hazard stat	ements
H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
Precaution	ary statements
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
	smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P302+P352	
P305+P351	+P338 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	<i>If skin irritation or rash occurs: Get medical advice/attention.</i>
P337+P313	<i>If eye irritation persists: Get medical advice/attention.</i>
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/internation
	regulations.
Additional i	information: Without adequate ventilation, explosive atmosphere/gas mix may be created.
2.3 Other h	• • • • • •
Results of H	PBT and vPvB assessment
• PBT: Not a	pplicable.
	7. 7.7

• **vPvB**: Not applicable.

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SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: 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 1, H220; Press. Gas (Comp.), H280	
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-xxxx	acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	10-<25%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25-xxxx	propan-2-ol	5-<10%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29-xxxx	n-butyl acetate 🚸 Flam. Liq. 3, H226; 🚸 STOT SE 3, H336	2.5-<5%
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	2.5-<5%

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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: 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	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	1-<2.5%
CAS: 9004-70-0	nitrocellulose with water(not less than 25% water, by mass)	1-<2.5%
CAS: 25068-38-6 NLP: 500-033-5	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight 700-1100 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	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; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	1-<2.5%
CAS: 162627-17-0 Reg.nr.: 01-2119970640-38-xxxx	Fatty Acids, C18-unsatd. dimers, reaction products with N,N- dimethyl-1,3- propanediamine and 1,3-propanediamine (1) Skin Sens. 1, H317	≥ 0.1-<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:
- 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.

- 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 to enter sewers/ surface or ground water.

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- 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.
- \cdot 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.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

•	8.1	Control	parameters
---	-----	----------------	------------

· Ingre	dients with limit values that require monitoring at the workplace:
115-1	0-6 dimethyl ether
WEL	Short-term value: 958 mg/m³, 500 ppm Long-term value: 766 mg/m³, 400 ppm
67-64	-1 acetone
WEL	Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm
67-63	2-0 propan-2-ol
WEL	Short-term value: 1250 mg/m³, 500 ppm Long-term value: 999 mg/m³, 400 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
WEL	Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV
64-17	-5 ethanol
WEL	Long-term value: 1920 mg/m³, 1000 ppm
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141-78-6 ethyl acetate	
WEL Short-term value: 1468 mg/m ³ , 400 ppm	
Long-term value: 734 mg/m ³ , 200 ppm	
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 v	vere used as basis.

· 8.2 Exposure controls

· 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:



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 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 protection:*

Safety glasses



Tightly sealed goggles

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9.1 Information on basic physical and c	chemical properties
General Information	
Appearance:	
Form:	Aerosol
Colour:	Grey
Odour:	Solvent-like
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range	2: -24.9 ℃
Flash point:	<0 °C
-	Without propellant gas.
Flammability (solid, gas):	Not applicable.
Ignition temperature:	235 °C
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive ai
	vapour mixtures are possible.
	Not determined.
Explosion limits:	
Lower:	2.6 Vol %
Upper:	18.6 Vol %
Vapour pressure at 20 °C:	3,400 hPa
Density:	Not determined.
Relative density	Not determined.
Vapour 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:	80.0 %
-	With propellant gas. Content given by weight.
Water:	0.2 %
VOC (EU)	79.96 %
Solids content:	18.9 %
9.2 Other information	<i>No further relevant information available.</i>

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

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· 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.
- \cdot 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 toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Inhalative LC50/4 h 1,068 mg/l

- · Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation
- Causes serious eye irritation.
- · Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure
- May cause drowsiness or dizziness.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

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.
- · 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.

- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Ikke relevant.
- · 12.6 Other adverse effects No further relevant information available.

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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· European waste catalogue

15 01 10* packaging containing residues of or contaminated by hazardous substances

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

14.1 UN-Number ADR, IMDG, IATA	UN1950
14.2 UN proper shipping name	
ADR	1950 AEROSOLS
IMDG	AEROSOLS
IATA	AEROSOLS, flammable
14.3 Transport hazard class(es)	
ADR	
Class	2 5F Gases.
Label	2.1
IMDG, IATA	
Class	2.1
Label	2.1
14.4 Packing group	
ADR, IMDG, IATA	Void
	not classified
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Gases.
Danger code (Kemler):	-
	not classified
EMS Number:	F-D,S-U
Stowage 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 with a capacity above 1 life Category B. For WASTE AEROSOLS: Category C, Cled
	of living quarters.

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Trade name: Aerosol 1K Epoxy Roststopp-Grundierung diff. colors (Contd. of page 8) SG69 For AEROSOLS with a maximum capacity of 1 litre: · Segregation Code 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 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. · Transport/Additional information: · ADR \cdot Limited quantities (LQ) lLCode: E0 \cdot Excepted quantities (EQ) Not permitted as Excepted Quantity · Transport category 2 · Tunnel restriction code D · IMDG \cdot Limited quantities (LQ) lLCode: E0 · Excepted quantities (EQ) Not permitted as Excepted Quantity UN 1950 AEROSOLS, 2.1 · UN "Model Regulation":

SECTION 15: Regulatory information

• 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
- \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
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· National regulations:

· Technical instructions (air):

Class	Share in %
Wasser	<1
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

H201 Explosive; mass explosion hazard. H220 Extremely flammable gas. H225 Highly flammable liquid and vapour.

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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.		
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.		
H412 Harmful to aquatic life with long lasting effects.		
• Department issuing SDS: Product safety department		
• Abbreviations and acronyms:		
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreeme	nt 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		
Expl. 1.1: Explosives – Division 1.1		
Flam. Gas 1: Flammable gases – Category 1		
Aerosol 1: Aerosols – Category 1 Press. Gas (Comp.): Gases under pressure – Compressed gas		
Flam. Liq. 2: Flammable liquids – Category 2		
Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3		
Acute Tox. 4: Acute toxicity - dermal – Category 4		
Skin Irrit. 2: Skin corrosion/irritation – Category 2		
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2		
Skin Sens. 1: Skin sensitisation – Category 1		
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 Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3		
\cdot * Data compared to the previous version altered.		