

SAFETY DATA SHEET

according to regulation 1907/2006/EC (REACH) and 1272/2008/EC



Trade name: **A.Z. Meistererteile Heat resistant silver aerosol paint**

Version: 1

Latest revision: -

Date of issue: 22. 12. 2022

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SECTION 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

A.Z. Meistererteile Heat resistant silver aerosol paint

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Painting metal surfaces exposed to high temperatures.

Uses advised against: application other than the above.

1.3 Details of the supplier of the safety data sheet:

Distributor Details:

UNIX Autó és Alkatrészkereskedelmi Kft.

H-1139 Budapest, Frangepán u. 55-57.

Tel.: +36 1 270 8700

Fax: +36 1 270 8799

E-mail: cs@unixauto.com

It is related to the use of the product
technical information:

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Fax: +36 1 270 8799

E-mail: cs@unixauto.com

1.4 Emergency telephone number

Emergency telephone (07-15²⁰ h): +36 1 270 8700 (CET) on workdays

Health Toxicological Information Service (ETTSZ 1097 Budapest, Albert Flórián st. 2-6.)

Tel.: +36 80 201 199 (0-24 h, free number, can only be called from Hungary).

+36 1 476 6464 (0-24 h, can be called for a normal fee - also from abroad)

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

Hazard Class and Category:

Aerosol 1

Aerosol 1

Skin Irrit. 2

STOT SE 3

Hazard statement:

H222 Extremely flammable aerosol

H229 Pressurized container: may burst if heated.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

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2.2 Label elements

Product identification: Trade name: **A.Z. Meistererteile Heat resistant silver aerosol paint**

Hazardous components: Acetone, Butan-1-ol.

GHS Pictogram:



Signal word:

Danger

Hazard statement:

H222 Extremely flammable aerosol

H229 Pressurized container: may burst if heated.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

Supplemental hazard information: -

Precautionary statements – General:

P102 Keep out of reach of children.

Precautionary statements – Prevention:

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.

P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area

P280 Wear protective gloves.

Precautionary statements – Response: -

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary statements – Storage:

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

Precautionary statements – Disposal:

P501 Dispose of contents/container in accordance with national regulation.

Other liabilities for labelling:

Tactile warning of danger: Not required.

Transport classification: see section 14.

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2.3 Other hazards

Product can form flammable/explosive vapour-air mixtures.

The product does not contain any PBT or vPvB substance according to annex XIII of regulation (EC) 1907/2006.

SECTION 3 Composition/information on ingredients

3.2 Mixtures

Chemical description: Mixtures of the following substances and non-hazardous substances with propellant gas.

Component(s) / Hazardous component(s):

Name	EC number	CAS number	Hazard classes and cat.	Hazard statements	Conc. %(m/m)
Butane* REACH Registr. Nr.: 01-2119474691-32	203-448-7	106-97-8	Flam. Gas 1 Press. Gas	H220 H280	20-25
Xylene (mixture of isomers) REACH Registr. Nr.: 01-2119488216-32	215-535-7	1330-20-7	Flam. Liq. 3 Acute Tox. 4 Skin Irrit. 2 Acute Tox. 4	H226 H312 H315 H332	15-25
Propane REACH Registr. Nr.: 01-2119486944-21	200-827-9	74-98-6	Flam. Gas 1 Press. Gas	H220 H280	15-20
Acetone REACH Registr. Nr.: 01-2119471330-49	200-662-2	67-64-1	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	H225 H319 H336	10-20
Butan-1-ol REACH Registr. Nr.: no data	200-751-6	71-36-3	Flam. Liq. 3 Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1 STOT SE 3 STOT SE 3	H226 H302 H315 H318 H335 H336	1.5-2.5
Ethylbenzene REACH Registr. Nr.: 01-2119489370-35	202-849-4	100-41-4	Flam. Liq. 2 Asp. Tox. 1 Acute Tox. 4 STOT RE 2 Aquatic Chronic 3	H225 H304 H332 H373 H412	1.5-2.5

*Butadiene content: <0.1%

The full text of each relevant H- phrase and Hazard classes and cat. see in Section 16.

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SECTION 4 First aid measures

4.1 Description of first aid measures

General information: Never give anything by mouth to an unconscious person, or never induce vomiting.

Inhalation: Remove exposed person to fresh air. In case of complaints, get medical advice.

Skin contact: Remove contaminated clothing. Wash skin with large amounts of water, use soap. In case of persistent irritation, contact a doctor.

Eye contact: Flush eyes with plenty of water for 10-15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of persistent irritation, contact a doctor.

Ingestion: Not possible under normal conditions. When happened, rinse mouth with water. Do not induce vomiting. Get medical attention.

Protection of first-aid person: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: sore throat, cough, confusion, headache, dizziness, loss of consciousness

Ingestion: cough, dizziness, nausea, vomiting, sore throat, confusion, headache, loss of consciousness

Skin: dry skin, redness

Eye: tearing, redness, pain, blurred vision, corneal damage

4.3 Indication of any immediate medical attention and special treatment needed

Symptoms may be delayed for several hours, monitoring is recommended.

Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 5 Fire-fighting measures

Fire hazards:

Explosive.

5.1 Extinguishing media

Suitable extinguishing media:

alcohol-resistant foam, carbon dioxide, dry chemical powder, water spray.

Unsuitable extinguishing media:

Full water jet. They could cause splattering, and spread the fire.

Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam

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5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:

In case of combustion carbon monoxide, carbon dioxide, various hydrocarbons and soot can be formed.

5.3 Advice for fire-fighters

Special protective equipment:

According to the existing fire-fighting regulations. Self-contained breathing apparatus.

Further information:

Use water spray just to cool down surfaces exposed to fire.

Collect contaminated fire-fighting water separately. It must not enter the sewage system.

Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: see Section 8.

Keep persons not involved in rescue at a distance.

Sufficient ventilation should be provided.

Keep away from sources of ignition – No smoking.

Avoid contact with skin, clothing and eyes, inhalation of gas, vapour, aerosol.

6.2 Environmental precautions:

Prevent spills from entering into natural water, soil and drains by containing the liquid. All kind of ignition sources should be removed. Do not smoke. Notify relevant authority.

6.3 Methods and material for containment and cleaning up

Exclude source of ignition. Adequate ventilation required in enclosed areas.

Keep away from sources of ignition. Use non-sparking tools.

Contain spilled liquid with sand, earth or other neutral material and place in suitable containers for disposal (dangerous waste).

6.4 Reference to other sections

Personal precautions: see section 8.

Waste treatment methods: see section 13.

SECTION 7 Handling and storage

7.1 Precautions for safe handling

Keep general measures applied for normal operations with chemicals and extremely flammable aerosols.

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Adequate ventilation or local exhaust must be provided.
Keep away from sources of ignition – No smoking.
Product can form flammable/explosive vapour-air mixtures.
Keep container in vertical position avoiding falls and strokes.
Use explosion-proof and non-sparking tools.
Do not pierce or burn, even after use.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.
Avoid to accumulate electrostatic charge.
Avoid contact with skin, clothing and eyes, inhalation of gas, vapour, aerosol.
Wash hands before breaks and at end of work.
Take off contaminated clothing and wash it before reuse.
When using do not eat or drink.
Handling temperature: no data.

7.2 Conditions for safe storage, including any incompatibilities

Keep general measures applied for storage of flammable and explosive materials.
Store in dry, well-ventilated place in original, closed containers.
Keep away from strong oxidizing agents, mineral acids, alkalis.
Storage temperature: max. 50°C.

7.3 Specific end use(s)

Painting metal surfaces exposed to high temperatures.

SECTION 8 Exposure controls / personal protection

8.1 Control parameters:

Substance	CAS number	Workplace exposure limit				Comments
		long term exposure limit (8- hr)		short term exposure limit (15- min.)		
		ppm	mg/m ³	ppm	mg/m ³	
<i>Acetone</i>	67-64-1	500	1210	1500	3620	
<i>Xylene</i>	1330-20-7	50	220	100	441	
<i>butan-1-ol</i>	71-36-3	-	-	50	154	
<i>Ethylbenzene</i>	100-41-4	100	441	125	552	
<i>Butane</i>	106-97-8	600	1450	750	1810	Carc

8.2 Exposure controls

Engineering control measures:

Maintain suitable ventilation of the working place.

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Personal protection:

- (a) Eye/face protection Protective goggles with side shields or face shield if splashes may occur (EN 166).
- (b) Skin protection
- (i) Hand protection Protective gloves (EN 374). Material: butyl, neoprene. Breakthrough time: min. 30 minutes.
Note: Manufacturer's directions for use and the conditions of application should be observed.
- (ii) Other Protective clothing.
Ensure that eyewash stations and safety showers are close to the workstation location.
- (c) Respiratory protection In case of vapor or aerosol formation, a respirator with a suitable filter (A) is required.
- (d) Thermal hazards No data.

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- a) Physical state: aerosol (active ingredient: liquid, under pressure)
- b) Colour: silver
- c) Odour: characteristic solvent
- d) Melting point/freezing point: not available
- e) Boiling point or initial boiling point and boiling range (DIN 51356): -48°C
- f) Flammability: Extremely flammable aerosol
- g) Lower and upper explosion limit: Product is not explosive.
However, formation of explosive air/steam mixtures is possible 5.0 vol% / 15.0 vol% (literature data)
- h) Flash point: not available
- i) Auto-ignition temperature: not available
- j) Decomposition temperature: not available
- k) pH: not available

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- l) Kinematic viscosity
- | | |
|-----------|---------------|
| at 40°C: | not available |
| at 100°C: | not available |
- m) Solubility
- | | |
|-------------------------------|----------------------------|
| Solubility in water: | not soluble |
| Solubility in other solvents: | soluble in apolar solvents |
- n) Partition coefficient n-octanol/water (log value): not available
- o) Vapour pressure:
- | | |
|--------|-----------|
| 50°C: | <1200 kPa |
| -15°C: | >150 kPa |
- p) Density and/or relative density at 20°C:
- | | |
|--|------------------------|
| | ~0.9 g/cm ³ |
|--|------------------------|
- q) Relative vapour density: not available
- r) Particle characteristics: not available

9.2 Other information

No data available.

SECTION 10 Stability and reactivity

- 10.1 Reactivity: Dangerous reactivity not known.
- 10.2 Chemical stability: No decomposition if stored and handled properly.
- 10.3 Possibility of hazardous reactions: Formation of explosive gas, vapour, air mixture is possible.
- 10.4 Conditions to avoid: High temperature (over 50°C), ignition source, heat source, open flame, spark, direct sunlight, electrostatic charging.
- 10.5 Incompatible materials: Strong acids, oxidizing agents, alkalis.
- 10.6 Hazardous decomposition products: No dangerous decomposition products are formed under normal conditions. Hazardous combustion products: See Section 5.

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

Components:

Propane (CAS: 74-98-6)

Inhalation:	LC ₅₀ (rat)	1443 mg/L/4 h	(literature data)
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Butane (CAS: 106-97-8)

Inhalation: LC₅₀ (rat) 658 mg/L/4 h (literature data)

Acetone (CAS: 67-64-1)

Oral: LD₅₀ (rat) 5800 mg/kg
Dermal: LD₅₀ (rabbit) >7400 mg/kg
Inhalation: LC₅₀ (rat) 76 mg/L/4 h

Xylene (mixture of isomers) (CAS: 1330-20-7)

Oral: LD₅₀ (rat) 3523 mg/kg
Dermal: LD₅₀ (rat) 12 126 mg/kg
Inhalation: LC₅₀ (rat) 27.12 mg/L/4 h vapor

Butan-1-ol (CAS: 71-36-3)

Oral: LD₅₀ (rat) 2510 mg/kg
Dermal: LD₅₀ (rabbit) 3430 mg/kg
Inhalation: LC₅₀ (rat) 24 mg/L/4 h vapor

Ethylbenzene (CAS: 100-41-4)

Oral: LD₅₀ (rat) 3500 mg/kg
Dermal: LD₅₀ (rabbit) 15 400 mg/kg
Inhalation: LC₅₀ (rat) 17.6 mg/L/4 h vapor

Skin corrosion/irritation: Causes skin irritation.
Serious eye damage/irritation: Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
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.

11.2 Information on other hazards

No data available.

SECTION 12 Ecological information

12.1 Toxicity

No data available for the product.

Components:

Acetone (CAS: 67-64-1)

Fishes (*Oncorhynchus mykiss*): LC₅₀ 5540 mg/L/96 h

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Daphnia (<i>Daphnia magna</i>):	EC ₅₀	12 600 mg/L/48 h
Algae (<i>Skeletonema costatum</i>):	ErC ₅₀	411 798 mg/L/5 days
Daphnia (<i>Daphnia magna</i>):	NOEC	≥79 mg/L/ 21 days

Xylene (mixture of isomers) (CAS: 1330-20-7)

Fishes (<i>Oncorhynchus mykiss</i>):	LC ₅₀	2.6 mg/L/96 h
Daphnia (<i>Ceriodaphnia dubia</i>):	EC ₅₀	1 mg/L/48 h
Alga (<i>Pseudokirchneriella subcapitata</i>):	ErC ₅₀	1.3 mg/L/72 h
Fishes (<i>Oncorhynchus mykiss</i>):	NOEC	>1.3 mg/L/56 days
Algae:	NOEC	1.17 mg/L/7 days

Butan-1-ol (CAS: 71-36-3)

Fishes (<i>Pimephales promelas</i>):	LC ₅₀	1376 mg/L/96 h
Daphnia (<i>Daphnia magna</i>):	EC ₅₀	1328 mg/L/48 h
Algae (<i>Skeletonema costatum</i>):	ErC ₅₀	225 mg/L/96 h
Daphnia (<i>Daphnia magna</i>):	NOEC	4.1 mg/L/ 21 days

Ethylbenzene (CAS: 100-41-4)

Fishes (<i>Oncorhynchus mykiss</i>):	LC ₅₀	5.1 mg/L/96 h
Daphnia (<i>Daphnia magna</i>):	EC ₅₀	2.4 mg/L/48 h
Algae (<i>Pseudokirchneriella subcapitata</i>):	ErC ₅₀	4.5 mg/L/96 h

12.2 Persistence and degradability

No data available for the product.

Biodegradability:

Acetone (CAS: 67-64-1)

half-life in air: 14.8 days (indirect photolysis)

Xylene (mixture of isomers) (CAS: 1330-20-7)

half-life (dissipation) in air DT50: 1.09 days

Butan-1-ol (CAS: 71-36-3)

half-life in air: 53.5 hours (indirect photolysis)

Ethylbenzene (CAS: 100-41-4)

half-life in air: 2.3 days

Propane (CAS: 74-98-6)

half-life in air: about 13 days (indirect photolysis)

Butane (CAS: 106-97-8)

half-life in air: about 6.3 days (indirect photolysis)

12.3 Bioaccumulative potential

No data available for the product.

Acetone (CAS: 67-64-1)

log Kow: -0.24; BCF: 0.69

Xylene (mixture of isomers) (CAS: 1330-20-7)

log Kow: 3.12 – 3.20

Butan-1-ol (CAS: 71-36-3)

log Kow: 0.88; BCF: 0.64

Ethylbenzene (CAS: 100-41-4)

log Kow: 3.6; BCF: 1

Propane (CAS: 74-98-6)

log Kow: 2.36

Butane (CAS: 106-97-8)

log Kow: 2.89

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12.4	Mobility in soil <i>Xylene (mixture of isomers) (CAS: 1330-20-7)</i> Mobility in water:	No data. Koc: 25 – 68 No data.
12.5	Results of PBT and vPvB assessment	Does not contain PBT and vPvB substances.
12.6	Endocrine disrupting properties	No data.
12.7	Other adverse effects Water hazard class (German):	No data.

SECTION 13 Disposal considerations

13.1 Waste treatment methods

Product disposal:

Wastes of the product or used oil should be treated as hazardous waste.

Waste Identification Code: 08 01 11*

Waste paint and varnish containing organic solvents or other dangerous substances.

Disposal must be in compliance with national and local regulations.

Recommended waste treatment method: incineration

Packaging disposal:

Containers with product residue should also be treated as hazardous waste according to national and local disposal regulations.

Waste Identification Code: 15 01 10*

packaging containing residues of or contaminated by dangerous substances

Disposal must be in compliance with national and local regulations.

Wastewater:

Quality of wastewater emitted to natural water must comply with national and local regulations.

Care should be taken in any case to ensure compliance with EC, national and local regulations. It is the responsibility of the user to know all relevant national and local regulations.

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SECTION 14 Transport information

Land transport:

Road/ Railway

ADR/RID:

14.1 UN number or ID number:	1950
14.2 UN proper shipping name:	AEROSOLS
14.3 Transport hazard class(es):	2 (classification code: 5F)
14.4 Packing group:	Not classified.
14.5 Environmental hazards:	not dangerous for the environment
Marine pollutant:	no
14.6 Special precautions for user:	
Labels:	2.1
Tunnel restriction code:	D

SECTION 15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety data sheet has been prepared according to Regulation (EC) No 1907/2006 (mod.: 2020/878/EU) and to Regulation (EC) 1272/2008.
Seveso category: P3.a.
- 15.2 Chemical safety assessment.
not available

SECTION 16 Other information

The information given in this data sheet is based on our best knowledge at the time of publication. The information is related only to this product and is intended to assist its safe transport, handling and use. The given physical and chemical parameters describe the product only for the purpose of safety requirements and therefore should not be construed as guaranteeing any specific property of the product or as being part of a product specification or any contract.

The manufacturer or supplier shall not take responsibility for any damages from the use other than recommended or other misuse of the product. It is the responsibility of the user to keep regulatory precautions and observe recommendations for safe use of the product.

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Classification for mixtures and used evaluation method according to regulation 1272/2008/EC (CLP)

Aerosol 1	H222	calculation method (based on flammable components)
Aerosol 1	H229	calculation method (based on flammable components)
Skin Irrit. 2	H315	calculation method
STOT SE 3	H336	calculation method

The full text of each relevant Hazard classes and cat. and H- phrase in Section 3.:

H220	Extremely flammable gas
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
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 through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
Flam. Gas 1	Flammable gas Category 1
Flam. Liq. 3	Flammable liquid Category 3
Flam. Liq. 2	Flammable liquid Category 2
Press Gas	Compressed gas
Acute Tox. 4	Acute toxicity Category 4
Asp. Tox. 1	Aspiration hazard Category 1
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
Acute Tox. 4	Acute toxicity Category 4
STOT SE 3	Specific target organ toxicity — single exposure Category 3
STOT SE 3	Specific target organ toxicity — single exposure Category 3

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STOT RE 2 Specific target organ toxicity – repeated exposure Category 2
Aquatic Chronic 3 Hazardous to the aquatic environment, Chronic Category 3

Legend:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration Factor
BOD	Biological Oxygen Demand
Bw	Body Weight
C&L	Classification and Labelling
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging (1272/2008/EC)
CMR	Carcinogenic, Mutagenic or toxic to Reproduction
COD	Chemical Oxygen Demand
CSA	Chemical Safety Assessment
CSR	Chemical Safety Report
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
ECHA	European Chemicals Agency
E _{cx}	Effective Concentration x%
E _{dx}	Effective Dose x%
ELINCS	European List of Notified Chemical Substances
E _r C ₅₀	EC ₅₀ in terms of reduction of growth rate;
ES	Exposure Scenario
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC _x	Lethal Concentration x%
LD _x	Lethal Dose x%
LOAEC	Lowest Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
LOEC	Lowest Observed Effect Concentration
LOEL	Lowest Observed Effect Level
NOEC	No observed effect concentration
NOEL	No observed effect level
NLP	No-Longer Polymer
NOAEL	No Observed Adverse Effect Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals

SAFETY DATA SHEET

according to regulation 1907/2006/EC (REACH) and 1272/2008/EC



Trade name: **A.Z. Meistererteile Heat resistant silver aerosol paint**

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RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SVHC	Substance of Very High Concern
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bio-accumulative

Revision Indicators:

Section	Subject of change	Date	Version