

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

mälzer dental 

Revision date: 12 Jul 2021

Print date: 22 Jul 2021

Version: 2.1

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Adhesive Cleaner

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

1.1 Product identifier

Trade name/designation:

Adhesive Cleaner

Other means of identification:

UFI: 0GYC-E12K-3004-43QF

Article No.:

15520

Additional information:

The product is a spray aerosol.

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

Use of the substance/mixture:

Cleaning agent for dental application.

For professional use only.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Mälzer Dental GmbH & Co. KG

Schlesierweg 27

31515 Wunstorf

GERMANY

Telephone: +49 (0) 5033 963099-0

Telefax: +49 (0) 5033 963099-99

E-mail: info@maelzer-dental.de

Website: <https://www.maelzer-dental.de>

E-mail (competent person): info@maelzer-dental.de

1.4 Emergency phone number

24h: +49 (0) 551 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	Calculation
Aerosols (<i>Aerosol 1</i>)	H222; H229: Extremely flammable aerosol.; Pressurised container: May burst if heated.	Calculation
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	Calculation

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark

Signal word: Danger

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Hazard components for labelling:

Acetone; 1-Methoxypropan-2-ol

Hazard statements for physical hazards

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

Hazard statements for health hazards

H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Supplemental hazard information: -

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.
P271	Use only outdoors or in a well-ventilated area.

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.
P312	Call a POISON CENTER/doctor if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.

Precautionary statements - Storage

P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
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Special rules on packaging:

Labelling for packages \leq 125 ml:

Hazard pictograms: GHS02, GHS07

Signal word: Danger

Hazard components for labelling: Contains Acetone; 1-Methoxy-2-propanol.

Safety information: Extremely flammable aerosol. Pressurised container: May burst if heated. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

2.3 Other hazards

Adverse physicochemical effects:

In use, may form flammable/explosive vapour-air mixture.

Adverse human health effects and symptoms:

May cause respiratory irritation. Induces narcotic effect.

SECTION 3: Composition / information on ingredients

3.2 Mixtures

Description:

Mixture of Active agent and propellant

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Ingredients:

Product identifiers	Substance name Classification according to Regulation (EC) No. 1272/2008 [CLP]	Content
CAS No.: 67-64-1 EC No.: REACH No.:	Acetone Eye Irrit. 2, Flam. Liq. 2, STOT SE 3 ⚠️ ⚠️ Danger H225-H319-H336-EUH066	25 - 50 weight-%
CAS No.: 115-10-6 EC No.: 204-065-8 REACH No.:	dimethyl ether Flam. Gas 1, Press. Gas ⚠️ ⚠️ Danger H220	25 - 50 weight-%
CAS No.: 123-86-4 EC No.: 204-658-1 REACH No.:	n-Butyl acetate Flam. Liq. 3, STOT SE 3 ⚠️ ⚠️ Warning H226-H336-EUH066	10 - 20 weight-%
CAS No.: 107-98-2 EC No.: 203-539-1 REACH No.:	1-Methoxypropan-2-ol Flam. Liq. 3, STOT SE 3 ⚠️ ⚠️ Warning H226-H336	2.5 - 10 weight-%
CAS No.: 112-34-5 EC No.: 203-961-6 REACH No.:	2-(2-Butoxyethoxy)ethanol Eye Irrit. 2 ⚠️ Warning H319	2.5 - 10 weight-%
CAS No.: 108-94-1 EC No.: 203-631-1	cyclohexanone Acute Tox. 4, Flam. Liq. 3 ⚠️ ⚠️ Warning H226-H332	2.5 - 10 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. Get medical advice/attention if you feel unwell.

In case of skin contact:

Remove contaminated, saturated clothing immediately. Wash immediately with: Water and soap. In case of skin irritation, consult a physician.

After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion:

Rinse mouth. Let water be drunken in little sips (dilution effect). Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO₂), Water spray jet.

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5.2 Special hazards arising from the substance or mixture

Extremely flammable aerosol. Vapours can form explosive mixtures with air.

Hazardous combustion products:

In case of fire may be liberated: carbon oxides (COx).

5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information

Heating causes rise in pressure with risk of bursting. Move undamaged containers from immediate hazard area if it can be done safely. Beware of reignition. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Personal precautions:

Eliminate all ignition sources if safe to do so. Provide adequate ventilation. Avoid contact with eyes and skin. Do not breathe gas/vapour/aerosol. Remove persons to safety.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2 For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Disposal: see section 13.

For cleaning up:

Clean floors and contaminated objects with: Water

6.4 Reference to other sections

Safe handling: see section 7.

Personal protection equipment: see section 8.

Disposal: see section 13.

6.5 Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Advices on safe handling:

Provide adequate ventilation as well as local exhaustion at critical locations. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Take precautionary measures against static discharges. Do not breathe gas/vapour/aerosol. Avoid contact with eyes and skin. Wear personal protection equipment (refer to section 8).

Environmental precautions:

Discharge into the environment must be avoided.

Advices on general occupational hygiene

Avoid contact with eyes and skin. Wash hands before breaks and after work. Take off contaminated clothing and wash it before reuse.

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7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight.

Requirements for storage rooms and vessels:

Material, solvent-resistant. Keep/Store only in original container.

Hints on storage assembly:

Keep away from combustible material. Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions:

Observe in addition any national regulations.

7.3 Specific end use(s)

Recommendation:

Cleaning agent for dental application.

Observe instructions for use.

SECTION 8: Exposure controls / Personal protection

8.1 Control parameters

8.1.1 Occupational exposure limit values

Limit value type (country)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
IOELV (EU)	Acetone CAS No.: 67-64-1	① 500 ppm (1,210 mg/m ³)
WEL (GB)	Acetone CAS No.: 67-64-1	① 500 ppm (1,210 mg/m ³) ② 1,500 ppm (3,620 mg/m ³)
IOELV (EU)	dimethyl ether CAS No.: 115-10-6	① 1,000 ppm (1,920 mg/m ³)
WEL (GB)	dimethyl ether CAS No.: 115-10-6	① 400 ppm (766 mg/m ³) ② 500 ppm (958 mg/m ³)
MEL/OES (GB)	n-Butyl acetate CAS No.: 123-86-4	① 150 ppm (724 mg/m ³) ② 200 ppm (966 mg/m ³)
IOELV (EU)	n-Butyl acetate CAS No.: 123-86-4	① 50 ppm (241 mg/m ³) ② 150 ppm (723 mg/m ³)
IOELV (EU)	1-Methoxypropan-2-ol CAS No.: 107-98-2	① 100 ppm (375 mg/m ³) ② 150 ppm (568 mg/m ³) ⑤ (may be absorbed through the skin)
WEL (GB)	1-Methoxypropan-2-ol CAS No.: 107-98-2	① 100 ppm (375 mg/m ³) ② 150 ppm (560 mg/m ³) ⑤ (may be absorbed through the skin)
WEL (GB)	2-(2-Butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67.5 mg/m ³) ② 15 ppm (101.2 mg/m ³)
IOELV (EU)	2-(2-Butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67.5 mg/m ³) ② 15 ppm (101.2 mg/m ³)
IOELV (EU)	cyclohexanone CAS No.: 108-94-1	① 10 ppm (40.8 mg/m ³) ② 20 ppm (81.6 mg/m ³) ⑤ (may be absorbed through the skin)
WEL (GB)	cyclohexanone CAS No.: 108-94-1	① 10 ppm (41 mg/m ³) ② 20 ppm (82 mg/m ³) ⑤ (may be absorbed through the skin)

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8.1.2 Biological limit values

Limit value type (country)	Substance name	Limit value	① Parameter ② Test material ③ Time of sampling ④ Remark
BMGV (GB)	cyclohexanone CAS No.: 108-94-1	2 mmol/mol creatinine	① cyclohexanol ② urine ③ end of exposure or end of shift

8.1.3 DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
Acetone CAS No.: 67-64-1	1,210 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Acetone CAS No.: 67-64-1	200 mg/m ³	① DNEL consumer ② Long-term - inhalation, systemic effects
Acetone CAS No.: 67-64-1	2,420 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
Acetone CAS No.: 67-64-1	186 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
Acetone CAS No.: 67-64-1	62 mg/kg	① DNEL consumer ② Long-term - dermal, systemic effects
Acetone CAS No.: 67-64-1	62 mg/kg	① DNEL consumer ② Long-term - oral, systemic effects
n-Butyl acetate CAS No.: 123-86-4	300 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
n-Butyl acetate CAS No.: 123-86-4	35.7 mg/m ³	① DNEL consumer ② Long-term - inhalation, systemic effects
n-Butyl acetate CAS No.: 123-86-4	960 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
n-Butyl acetate CAS No.: 123-86-4	300 mg/m ³	① DNEL consumer ② Acute - inhalation, systemic effects
n-Butyl acetate CAS No.: 123-86-4	11 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
n-Butyl acetate CAS No.: 123-86-4	6 mg/kg	① DNEL consumer ② Long-term - dermal, systemic effects
n-Butyl acetate CAS No.: 123-86-4	11 mg/kg	① DNEL worker ② Acute - dermal, systemic effects
n-Butyl acetate CAS No.: 123-86-4	6 mg/kg	① DNEL consumer ② Acute - dermal, systemic effects
n-Butyl acetate CAS No.: 123-86-4	2 mg/kg	① DNEL consumer ② Long-term - oral, systemic effects
n-Butyl acetate CAS No.: 123-86-4	2 mg/kg	① DNEL consumer ② Acute - oral, systemic effects
1-Methoxypropan-2-ol CAS No.: 107-98-2	369 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
1-Methoxypropan-2-ol CAS No.: 107-98-2	43.9 mg/m ³	① DNEL consumer ② Long-term - inhalation, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
1-Methoxypropan-2-ol CAS No.: 107-98-2	553.5 mg/ cm ²	① DNEL worker ② Acute - inhalation, systemic effects
1-Methoxypropan-2-ol CAS No.: 107-98-2	183 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
1-Methoxypropan-2-ol CAS No.: 107-98-2	78 mg/kg	① DNEL consumer ② Long-term - dermal, systemic effects
1-Methoxypropan-2-ol CAS No.: 107-98-2	3.3 mg/kg	① DNEL consumer ② Long-term - oral, systemic effects

Substance name	PNEC value	① PNEC type
Acetone CAS No.: 67-64-1	10.6 mg/L	① PNEC aquatic, freshwater
Acetone CAS No.: 67-64-1	1.06 mg/L	① PNEC aquatic, marine water
Acetone CAS No.: 67-64-1	100 mg/L	① PNEC sewage treatment plant
Acetone CAS No.: 67-64-1	30.4 mg/kg	① PNEC sediment, freshwater
Acetone CAS No.: 67-64-1	3.04 mg/kg	① PNEC sediment, marine water
Acetone CAS No.: 67-64-1	21 mg/L	① PNEC aquatic, intermittent release
Acetone CAS No.: 67-64-1	33.3 mg/kg	① PNEC soil, freshwater
n-Butyl acetate CAS No.: 123-86-4	0.18 mg/L	① PNEC aquatic, freshwater
n-Butyl acetate CAS No.: 123-86-4	0.018 mg/L	① PNEC aquatic, marine water
n-Butyl acetate CAS No.: 123-86-4	35.6 mg/L	① PNEC sewage treatment plant
n-Butyl acetate CAS No.: 123-86-4	0.981 mg/kg	① PNEC sediment, freshwater
n-Butyl acetate CAS No.: 123-86-4	0.0981 mg/ kg	① PNEC sediment, marine water
n-Butyl acetate CAS No.: 123-86-4	0.0903 mg/ kg	① PNEC soil
n-Butyl acetate CAS No.: 123-86-4	0.36 mg/L	① PNEC aquatic, intermittent release
1-Methoxypropan-2-ol CAS No.: 107-98-2	10 mg/L	① PNEC aquatic, freshwater
1-Methoxypropan-2-ol CAS No.: 107-98-2	1 mg/L	① PNEC aquatic, marine water
1-Methoxypropan-2-ol CAS No.: 107-98-2	100 mg/L	① PNEC sewage treatment plant
1-Methoxypropan-2-ol CAS No.: 107-98-2	52.3 mg/kg	① PNEC sediment, freshwater
1-Methoxypropan-2-ol CAS No.: 107-98-2	5.2 mg/kg	① PNEC sediment, marine water
1-Methoxypropan-2-ol CAS No.: 107-98-2	4.59 mg/kg	① PNEC soil
1-Methoxypropan-2-ol CAS No.: 107-98-2	100 mg/L	① PNEC aquatic, intermittent release

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8.2 Exposure controls

8.2.1 Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. Provide adequate ventilation as well as local exhaust at critical locations.

8.2.2 Personal protection equipment



Eye/face protection:

Eye glasses with side protection (EN 166).

Skin protection:

Tested protective gloves must be worn (EN ISO 374).

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material $\geq 0,4$ mm

Suitable material: IIR (Butyl rubber)

Thickness of the glove material $\geq 0,7$ mm

Breakthrough time: ≥ 480 min

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. Recommendation: Draw up and observe skin protection programme.

Respiratory protection:

Usually no personal respiratory protection necessary. Provide adequate ventilation. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Filtering device (full mask or mouthpiece) with filter: AX

Other protection measures:

Wear anti-static footwear and clothing

8.2.3 Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Aerosol

Colour: pink

Odour: like Acetone

Safety relevant basic data

Parameter		at	Method	Remark
pH	<i>not applicable</i>			
Melting point	<i>not applicable</i>			
Freezing point	<i>not applicable</i>			
Initial boiling point and boiling range	<i>not applicable</i>			
Decomposition temperature	<i>not determined</i>			
Flash point	<i>not applicable</i>			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	> 200 °C			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	0.767 g/ml	20 °C		
Bulk density	<i>not applicable</i>			
Water solubility	partially soluble			

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Parameter		at	Method	Remark
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not applicable</i>			
Kinematic viscosity	<i>not applicable</i>			
VOC content (EU):	740.1 g/L			

9.2 Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Extremely flammable aerosol.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions. Vapours can form explosive mixtures with air. Violent reaction with: Oxidising agent, strong

10.4 Conditions to avoid

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5 Incompatible materials

Oxidising agent

10.6 Hazardous decomposition products

In case of fire may be liberated: carbon oxides (COx).

Further information

No data available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

CAS No.	Substance name	Toxicological information
67-64-1	Acetone	LC₅₀ Acute inhalation toxicity (vapour): 76 mg/L 4 h (Rat)
123-86-4	n-Butyl acetate	LD₅₀ oral: 10,800 mg/kg (Ratte) LD₅₀ dermal: 17,600 mg/kg (Kaninchen) LC₅₀ Acute inhalation toxicity (vapour): 1.85 mg/L 4 h (Ratte)

Acute oral toxicity:

Based on available data, the classification criteria are not met.

Acute dermal toxicity:

Based on available data, the classification criteria are not met.

Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

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:

Based on available data, the classification criteria are not met.

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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:

Vapours may cause drowsiness and dizziness.

Gas/vapour: Induces narcotic effect.

May cause respiratory irritation.

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.

Additional information:

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Based on available data, the classification criteria are not met.

Assessment/classification:

On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment is unlikely.

12.2 Persistence and degradability

Biodegradation:

Readily biodegradable (according to OECD criteria).

12.3 Bioaccumulative potential

Accumulation / Evaluation:

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Product/Packaging disposal

Waste codes/waste designations according to EWC

Waste code product:

16 05 04 *	Gases in pressure containers (including halons) containing hazardous substances
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*: Evidence for disposal must be provided.

Waste code packaging:

15 01 04	metallic packaging
15 01 10 *	Packaging containing residues of or contaminated by dangerous substances

*: Evidence for disposal must be provided.

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Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Completely emptied packages can be recycled.

Other disposal recommendations:

The allocation of waste code numbers / waste names must be carried out in accordance with the European Waste Catalogue (EWC). Collect in closed and suitable containers for disposal.

13.2 Additional information

Caution! Container under pressure. Do not pierce or burn, even after use. Keep cool. Protect from sunlight. Waste for disposal is to be classified and labelled.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI-/IATA-DGR)
14.1 UN-No.			
1950	1950	1950	1950
14.2 UN proper shipping name			
AEROSOLS, Flammable	AEROSOLS, Flammable	AEROSOLS, Flammable	AEROSOLS, Flammable
14.3 Transport hazard class(es)			
 2.1	 2.1	 2.1	 2.1
14.4 Packing group			
No data available.			
14.5 Environmental hazards			
No	No	No	No
14.6 Special precautions for user			
Special provisions: not determined Limited Quantity (LQ): 1 L Excepted Quantities (EQ): not determined Hazard identification number (KemlerNo.): Classification code: 1F Tunnel restriction code: (D) Remark: -	Special provisions: not determined Limited Quantity (LQ): not determined Excepted Quantities (EQ): not determined Classification code: 1F Remark: -	Special provisions: not determined Limited Quantity (LQ): not determined Excepted Quantities (EQ): not determined EmS-No.: F-D,S-U Remark: -	Special provisions: not determined Limited Quantity (LQ): not determined Excepted Quantities (EQ): not determined Remark: -

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

not determined

Additional information:

Transport as "Limited Quantity" according to chapter 3.4 ADR/RID.

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SECTION 15: Regulatory information

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

15.1.1 EU legislation

Other EU regulations:

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

15.1.2 National regulations

No data available.

15.2 Chemical Safety Assessment

No data available.

SECTION 16: Other information

16.1 Indication of changes

Changes executed in version 2.1:
General revision of all sections

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

mälzer dental 

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16.2 Abbreviations and acronyms

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

ATE = acute toxicity estimate

AVV = Abfallverzeichnis-Verordnung

AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen

BGI = Berufsgenossenschaftliche Informationen

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level

DNEL = Derived No Effect Level

EC50 = Median effective concentration

ECB = European Chemicals Bureau

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

ELINCS = European List of Notified Chemical Substances

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform Chemical Information Database

LC50 = Lethal concentration, 50%

LD50 = Median lethal dose

LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

LGK = Lagerklasse

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Content

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Content

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

TLV®/TWA = Threshold limit value - time-weighted average

TLV®STEL = Threshold limit value - short-time exposure limit

TRGS = Technical Rules for Hazardous Substances

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

16.3 Key literature references and sources for data

European Chemicals Agency (ECHA): <http://www.echa.europa.eu>

ECHA, C&L Inventory: <http://echa.europa.eu/information-on-chemicals/cl-inventory-database>

ECHA, Registered substances: <http://echa.europa.eu/information-on-chemicals/registered-substances>

GESTIS (Gefahrstoffinformationssystem der DGUV): <http://www.dguv.de/ifa/GESTIS/index.jsp>

Hörath Gefährliche Stoffe und Gemische, 8. Auflage, Dr. Angela Schulz

Safety data sheets of the manufacturers

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16.4 Classification for mixtures and used evaluation method according to regulation (EC) No. 1272/2008 [CLP]

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	Calculation
Aerosols (<i>Aerosol 1</i>)	H222; H229: Extremely flammable aerosol.; Pressurised container: May burst if heated.	Calculation
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	Calculation

16.5 Relevant H- and EUH-phrases

Hazard statements	
H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.

Supplemental hazard information	
EUH066	Repeated exposure may cause skin dryness or cracking.

16.6 Training advice

No data available.

16.7 Additional information

The information in this safety data sheet has been established to our best knowledge and was up-to-date at time of revision. The information is intended to give you advice about the safe handling of the product for storage, processing, transport and disposal. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.