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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** Cementit Universal**UFI:** TP80-H0Y8-C00V-N0PW**1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

Sector of Use

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, maintenance, services, craftsmen)

Product category PC1 Adhesives, sealants**Process category** PROC10 Roller application or brushing**Environmental release category**

ERC8c Widespread use leading to inclusion into/onto article (indoor)

Application of the substance / the mixture Adhesives**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

merz+benteli ag

Freiburgstrasse 616

CH-3172 Niederwangen/Bern

Tel: +41 31 980 48 48

Fax: +41 31 980 48 49

E-mail: info@merz-benteli.ch

Web: www.merz-benteli.ch

Further information obtainable from:

merz+benteli ag: Tel: +41(0)31 980 48 48

E-mail: info@merz-benteli.ch

1.4 Emergency telephone number:

merz+benteli ag: Tel.: +41(0)31 980 48 48

National emergency phone number Switzerland: Tel.: +41 145

SwissToxicological Information center: Tel.: +41(0)44 251 51 51

E-mail: info@toxi.ch

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

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· Hazard pictograms



GHS02 GHS07

· Signal word Danger

· Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

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

P280 Wear protective gloves.

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Labelling of packages where the contents do not exceed 125 ml H336, P102, P271

· Hazard pictograms GHS02, GHS07

· Signal word Danger

· Hazard-determining components of labelling: Ethyl acetate, acetone, butanone

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· Determination of endocrine-disrupting properties

Endocrine disrupting properties - human health / environment: The substance/mixture contains no ingredients with endocrine disrupting properties at levels of 0.1% or more (according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Delegated Regulation (EU) 2018/605 of the Commission).

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Adhesive based on nitrocellulose, solvent

· Dangerous components:

Does not contain any (other) ingredients in a quantity which, according to the CLP regulation, requires a listing in this section

CAS: 64-17-5

EINECS: 200-578-6

Index number: 603-002-00-5

Reg.nr.: 01-2119457610-43-

xxxx

ethanol

Flam. Liq. 2, H225; Eye Irrit. 2, H319

10-<25%

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CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5 Reg.nr.: 01-2119475103-46-XXXX	ethyl acetate	(Contd. of page 2) 10-<20%
	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	
	butanone	2.5-<10%
CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3 Reg.nr.: 01-2119457290-43-XXXX	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	
	acetone	2.5-<10%
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49-XXXX	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	

- **SVHC** Not present in an amount $\geq 0.1\%$
- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Wash with plenty of water or water and soap. In cases of sickness seek medical advice (show label if possible).
- **After eye contact:**
Rinse opened eye for several minutes under running water and seek medical advice.
- **After swallowing:**
Do not induce vomiting; call for medical help immediately.
Drink plenty of water. Seek medical advice immediately and show the label or packaging.
- **4.2 Most important symptoms and effects, both acute and delayed** Dizziness
- **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:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- **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:

- Ensure adequate ventilation.
- Pick up mechanically.
- Do not flush with water or aqueous cleansing agents

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

- Observe the general safety regulations when handling chemicals.

Information about fire - and explosion protection:

- Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

- Requirements to be met by storerooms and receptacles:** Store in a cool and dry location.
- Information about storage in one common storage facility:** Store away from foodstuffs.
- Further information about storage conditions:**
 - Keep container tightly sealed.
 - Protect from heat and direct sunlight.

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any (further) relevant quantities of substances with workplace-related limit values that require monitoring

64-17-5 ethanol

AGW (Germany)	Long-term value: 380 mg/m ³ , 200 ppm 4(II);DFG, Y
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141-78-6 ethyl acetate

AGW (Germany)	Long-term value: 730 mg/m ³ , 200 ppm 2(I);DFG, EU, Y
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78-93-3 butanone

AGW (Germany)	Long-term value: 600 mg/m ³ , 200 ppm 1(I);DFG, EU, H, Y
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67-64-1 acetone

AGW (Germany)	Long-term value: 1200 mg/m ³ , 500 ppm 2(I);AGS, DFG, EU, Y
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Ingredients with biological limit values:

78-93-3 butanone

BGW (Germany)	2 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: 2-Butanon
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67-64-1 acetone

BGW (Germany)	80 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Aceton
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- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Do not eat, drink, smoke or sniff while working.
- **Respiratory protection:**
Not necessary if room is well-ventilated.
Use suitable respiratory protective device in case of insufficient ventilation.
Filter AX
- **Hand protection**
Preventive skin protection by use of skin-protecting agents is recommended.



Protective gloves recommend

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Nitrile rubber, NBR
Natural rubber, NR
PVA gloves
Recommended thickness of the material: ≥ 0.4 mm
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection**



Tightly sealed goggles

- **Body protection:** Light weight protective clothing recommended.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Fluid

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· Colour:	Yellow tint
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Not determined.
· Boiling point or initial boiling point and boiling range	>56 °C
· Flammability	Highly flammable.
· Lower and upper explosion limit	
· Lower:	1.8 Vol %
· Upper:	20 Vol %
· Flash point:	< -3 °C (Closed Cup)
· Auto-ignition temperature:	>425 °C
· Decomposition temperature:	Not determined.
· pH	Not applicable.
· Kinematic viscosity	
· Dynamic at 20 °C:	14000 mPas
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density at 20 °C:	ca.1 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· 9.2 Other information	
· Appearance:	
· Form:	Viscous
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Solvent content:	
· VOC (EC)	ca. 45 %
· Change in condition	
· Softening point/range	
· Oxidising properties	Not determined.
· Evaporation rate	Not determined.
· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Highly flammable liquid and vapour.
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void

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· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Possible in traces.

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.
- **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.
- **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**
- **Endocrine disrupting properties**
Endocrine disrupting properties - human health: The substance/mixture contains no ingredients with endocrine disrupting properties at levels of 0.1% or more (according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Delegated Regulation (EU) 2018/605 of the Commission).

SECTION 12: Ecological information

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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12.6 Endocrine disrupting properties

Endocrine disrupting properties - environment: The substance/mixture contains no components with endocrine disrupting properties at levels of 0.1% or more (according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Delegated Regulation (EU) 2018/605 of the Commission).

12.7 Other adverse effects**Additional ecological information:****General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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.

European waste catalogue

08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances
15 01 04	metallic packaging
15 01 01	paper and cardboard packaging

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information**14.1 UN number or ID number**

ADR UN1133

14.2 UN proper shipping name

ADR 1133 Adhesives, containing flammable liquids

14.3 Transport hazard class(es)**ADR**

Class 3, F1
Label 3

14.4 Packing group

ADR I

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user Not applicable.

Hazard identification number (Kemler code): 33

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· EMS Number:	F-E,S-D
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	30 ml / 300 ml
· Transport category	1
· Tunnel restriction code	D/E
· UN "Model Regulation":	UN1133, Adhesives, containing flammable liquids, 3, I

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 52a
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
- None of the ingredients is listed.
- **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**
 - H225 Highly flammable liquid and vapour.
 - H319 Causes serious eye irritation.
 - H336 May cause drowsiness or dizziness.
 - EUH066 Repeated exposure may cause skin dryness or cracking.
- **Abbreviations and acronyms:**
 - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 - ICAO: International Civil Aviation Organisation
 - ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 - 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)
 - VOC: Volatile Organic Compounds (USA, EU)
 - PBT: Persistent, Bioaccumulative and Toxic
 - SVHC: Substances of Very High Concern
 - vPvB: very Persistent and very Bioaccumulative
 - Flam. Liq. 2: Flammable liquids – Category 2
 - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- **Sources** Not available
- *** Data compared to the previous version altered.**