

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 05.02.2020

Version number 1

Revision: 05.02.2020

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

- **1.1 Product identifier**
- **Trade name: Colle MSA 1100**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation :** Temporary textile adhesive
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
MADEIRA GARNFABRIK
ZINKMATTENSTRASSE 38
D79108 FREIBURG Allemagne
Tél: +49(0)761 - 5 10 40-0
Fax: +49(0)761 - 50 01 01 / 50 84 56
- **1.4 Emergency telephone number:**
France (INRS 24h/24) - Tel : +33 (0)1 45 42 59 59
Ireland - Tel : 00 353 1 8092568 - 00 353 1 8379964 (24h/24) EU Tel: 112
Belgique / Luxembourg : (+352) 8002-5500
UK : Call NHS 999 in a medical emergency. If you urgently need medical help or advice but it's not a life-threatening situation, call 111 (24/7). The NHS 111 number is currently only available in certain areas. If you're outside of these areas, you should call NHS Direct on 0845 4647

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008 :**



GHS02

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

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02

- **Signal word** Danger
- **Hazard statements**
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
- **Precautionary statements**
 - P101 If medical advice is needed, have product container or label at hand.
 - P102 Keep out of reach of children.
 - 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.
 - P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Mixture: consisting of the following components.

- **Dangerous components:**

CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8 RTECS: PM 4780000 Reg.nr.: 01-2119472128-37	dimethyl ether Flam. Gas 1, H220; Acute Tox. 2, H330; Press. Gas (Comp.), H280	25-50%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 RTECS: EJ 4200000 Reg.nr.: 01-2119474691-32	butane, pure Flam. Gas 1, H220; Press. Gas (Comp.), H280	25-50%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 RTECS: TX 2275000 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1, H220; Press. Gas (Comp.), H280	5-10%
CAS: 109-87-5 EINECS: 203-714-2 RTECS: PA 8750000	dimethoxymethane Flam. Liq. 2, H225	5-10%

- **SVHC** No

- **Additional information:** For the wording of the listed risk phrases, refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** Provide fresh air; consult a doctor in case of medical complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult a 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 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 :** 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 the product to enter sewers/ surface water or ground water.
- **6.3 Methods and material for containment and cleaning up:** Ensure adequate ventilation.

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- **6.4 Reference to other sections :**
See Section 7 for information on safe handling.
See Section 8 for information on personal protective equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling :**
Keep receptacles tightly sealed.
Keep away from heat and direct sunlight.
Open and handle receptacle with care.
- **Information about fire - and explosion protection:**



Keep ignition sources away - Do not smoke.

- Protect against electrostatic charges.
- 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.
- Do not spray onto a naked flame or any incandescent material.

- **7.2 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 pressurised containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
Do not seal receptacle gas tight.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- **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 section 7.
- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

CAS: 115-10-6 dimethyl ether (25-50%)

WEL (Great Britain)	Short-term value: 958 mg/m ³ , 500 ppm Long-term value: 766 mg/m ³ , 400 ppm
IOELV (EU)	Long-term value: 1920 mg/m ³ , 1000 ppm
MAK (Switzerland)	Long-term value: 1910 mg/m ³ , 1000 ppm

CAS: 106-97-8 butane, pure (25-50%)

WEL (Great Britain)	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
MAK (Switzerland)	Short-term value: 7600 mg/m ³ , 3200 ppm Long-term value: 1900 mg/m ³ , 800 ppm

CAS: 74-98-6 propane (5-10%)

MAK (Switzerland)	Short-term value: 7200 mg/m ³ , 4000 ppm Long-term value: 1800 mg/m ³ , 1000 ppm
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CAS: 109-87-5 dimethoxymethane (5-10%)

WEL (Great Britain)	Short-term value: 3950 mg/m ³ , 1250 ppm Long-term value: 3160 mg/m ³ , 1000 ppm
MAK (Switzerland)	Short-term value: 6200 mg/m ³ , 2000 ppm Long-term value: 3100 mg/m ³ , 1000 ppm SSc;

CAS: 84-66-2 diethyl phthalate (<1%)

WEL (Great Britain)	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³
MAK (Switzerland)	Long-term value: 5 e mg/m ³

CAS: 5989-27-5 (R)-p-mentha-1,8-diene (<0.1%)

MAK (Switzerland)	Short-term value: 80 mg/m ³ , 14 ppm Long-term value: 40 mg/m ³ , 7 ppm S SSc;
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CAS: 80-56-8 alpha-Pinene (<0.01%)

MAK (Switzerland)	Short-term value: 224 mg/m ³ , 40 ppm Long-term value: 112 mg/m ³ , 20 ppm H S;
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CAS: 8006-64-2 Turpentine, oil (<0.01%)

WEL (Great Britain)	Short-term value: 850 mg/m ³ , 150 ppm Long-term value: 566 mg/m ³ , 100 ppm
MAK (Switzerland)	Short-term value: 224 mg/m ³ , 40 ppm Long-term value: 112 mg/m ³ , 20 ppm H S;

CAS: 127-91-3 beta-Pinene (<0.01%)

MAK (Switzerland)	Short-term value: 224 mg/m ³ , 40 ppm Long-term value: 112 mg/m ³ , 20 ppm H S;
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CAS: 128-37-0 Butylated hydroxytoluene (<0.01%)

WEL (Great Britain)	Long-term value: 10 mg/m ³
MAK (Switzerland)	Short-term value: 40 e mg/m ³ Long-term value: 10 e mg/m ³ C1b SSc; MAK eingehalten: kein erhöhtes Krebsrisiko

· DNELs**CAS: 78-70-6 Linalool**

Oral	DNEL Public long-term systemic	0.2 mg/kg bw/d
Dermal	DNEL Public long-term systemic	1.25 mg/kg bw/d
	DNEL Worker long-term systemic	2.5 mg/kg bw/d
Inhalative	DNEL Public long-term systemic	0.7 mg/m ³
	DNEL Worker long-term systemic	2.8 mg/m ³
	DNEL Public long-term local effects	16.5 mg/m ³

· PNECs**CAS: 78-70-6 Linalool**

PNEC STP	10 mg/L
PNEC aqua (fresh water)	0.2 mg/L
PNEC aqua (intermittent releases)	2.22 mg/L
PNEC aqua (marine water)	0.02 mg/L
PNEC sediment (fresh water)	2.22 mg/kg
PNEC sediment (marine water)	0.222 mg/kg
PNEC soil	0.327 mg/kg

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- **Additional information:**
The most current valid lists have been used as a basis for the production of this document.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- **Gloves material :**
The selection of suitable gloves does not depend only on the material, but also on further marks of quality which may vary 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 before use.
- **Eye protection:**



Tightly sealed goggles

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
 - **Form:** Aerosol
 - **Colour:** According to product specification
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
 - **Melting point/freezing point:** Undetermined.
 - **Initial boiling point and boiling range:** -24 °C
- **Flash point:** -42 °C
- **Flammability (solid, gas):** Not applicable.
- **Ignition temperature:** 235 °C
- **Decomposition temperature:** Not determined.
- **Auto-ignition temperature:** Product is not self igniting.
- **Explosive properties:** Not determined.
- **Explosion limits:**
 - **Lower:** 3.0 Vol %
 - **Upper:** 18.6 Vol %
- **Vapour pressure at 20 °C:** 5200 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.
- **Segregation coefficient (n-octanol/water):** Not determined.

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|----------------------------------|--|
| · Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |
| · Solvent content: | |
| COV (USA) : | 35.6 % |
| VOC (EC) | 35.57 % |
| · 9.2 Other information : | No further relevant information available. |

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:** 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:

CAS: 115-10-6 dimethyl ether		
Inhalative	LC50/4 h	308 mg/l (rat)
CAS: 109-87-5 dimethoxymethane		
Oral	LD50	5,708 mg/kg (rabbit)
CAS: 84-66-2 diethyl phthalate		
Oral	LD50	8,600 mg/kg (rat)
CAS: 5989-27-5 (R)-p-mentha-1,8-diene		
Oral	LD50	4,400 mg/kg (rat)
CAS: 5392-40-5 Citral		
Oral	LD50	4,960 mg/kg (rat)
CAS: 80-56-8 alpha-Pinene		
Oral	LD50	500 mg/kg (ATE)
CAS: 8006-64-2 Turpentine, oil		
Oral	LD50	3,700 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)
CAS: 78-70-6 Linalool		
Oral	LD50	3,000 mg/kg (mouse)
		2,790 mg/kg (rat)
Dermal	LD50	5,610 mg/kg (rabbit)
CAS: 128-37-0 Butylated hydroxytoluene		
Oral	LD50	650 mg/kg (mouse)
		890 mg/kg (rat)

- **Primary irritant effect:**
- **On the skin:** Based on available data, the classification criteria are not met.

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- **On the eyes:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitization** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, 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** Based on available data, the classification criteria are not met.
- **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:

CAS: 5989-27-5 (R)-p-mentha-1,8-diene

LC50 96h 0.72 mg/l (fish)

EC50 48h 0.36 mg/l (daphnia)

CAS: 80-56-8 alpha-Pinene

EC50 48h 41 mg/l (daphnia)

CAS: 8006-64-2 Turpentine, oil

NOEC 10,000 mg/l (Algae)

10,000 mg/l (Aquatic plants)

EC50 72h 17,100 mg/l (Algae)

736,000 mg/l (Aquatic plants)

EC50 48h 29,000 mg/l (fish)

CAS: 128-37-0 Butylated hydroxytoluene

LC50 96h 0.199 mg/l (fish)

EC50 96h 0.758 mg/l (Algae)

· **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 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects :** No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation :



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

HP3 Flammable

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

SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN1950

- **14.2 UN proper shipping name**
- **ADR** UN1950 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** Not classified as hazardous for transport

- **14.5 Environmental hazards:**
- **Marine pollutant:** No

- **14.6 Special precautions for user** Warning: Gases.
- **Hazard identification number (Kemler code):** -
- **EMS Number:** F-D,S-U
- **Stowage Code** SW1 Protected from sources of heat.
SW2 Clear of living quarters.
- **Segregation Code** 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.

- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

- **Transport/Additional information:**

- **ADR**
- **Limited quantities (LQ)** 1L
- **Excepted quantities (EQ)** Code: E0
Not permitted as Excepted Quantity
- **Transport category** 2

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· Tunnel restriction code	D
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

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.
- **Seveso category P3a** FLAMMABLE AEROSOLS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **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**
H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H330 Fatal if inhaled.

· Classification according to Regulation (EC) No 1272/2008

Aerosols	Bridging principles
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· 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
 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)
 VOC: Volatile Organic Compounds (USA, EU)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 SVHC: Substances of Very High Concern
 vPvB: very Persistent and very Bioaccumulative
 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
 Acute Tox. 2: Acute toxicity - inhalation – Category 2

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