

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

Printing date 22.08.2023

Version number 5

Revision: 22.08.2023

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

- **Product identifier**
- **Trade name:** technicoll® 108
- **CAS Number:** 75-09-2
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Adhesives
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
RUDERER KLEBTECHNIK GMBH
Harthäuser Str. 2
D-85604 Zorneding
Tel.: +49 (0)8106 / 24608-33
info@technicoll.de
- **Further information obtainable from:** Anwendungstechnik
- **Emergency telephone number:**
Mo. - Do.: 08:00 - 17:00 Uhr; Fr.: 08:00 - 13:00 Uhr;
Tel.: +49 (0)8106 / 24608-33

SECTION 2: Hazards identification

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



health hazard

Carc. 2 H351 Suspected of causing cancer.

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



GHS08

- **Signal word** Warning
- **Hazard-determining components of labelling:**
dichloromethane
- **Hazard statements**
H351 Suspected of causing cancer.
- **Precautionary statements**
P280 Wear protective gloves/protective clothing/eye protection/face protection.
- **Other hazards** This substance does not meet the PBT/vPvB criteria of UK REACH, Annex XIII.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 75-09-2 EINECS: 200-838-9	dichloromethane	 Carc. 2, H351	>70.0%
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· **Additional information:**

Full text of H- and EUH-statements: see section 16. Full text of H-phrases: see section 16.
For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **Description of first aid measures**
- **General information:**
In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.
- **After inhalation:**
Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.
Seek medical treatment.
- **After skin contact:**
Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.
- **After eye contact:**
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.
- **After swallowing:**
If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.
- **Information for doctor:** First aiders: Pay attention to self-protection!
- **Most important symptoms and effects, both acute and delayed**
In all cases of doubt, or when symptoms persist, seek medical advice.
- **Indication of any immediate medical attention and special treatment needed**
First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Carbon dioxide (CO₂); spray mist, (water); foam
- **For safety reasons unsuitable extinguishing agents:** Sharp water jet
- **Special hazards arising from the substance or mixture**
Gases/vapours, toxic
Heating causes rise in pressure with risk of bursting.
- **Advice for firefighters**
Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

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- **Protective equipment:**
No special measures required.
Mouth respiratory protective device.

SECTION 6: Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Ventilate affected area. Do not breathe vapours. Keep away from sources of ignition. Remove persons to safety.
- **Environmental precautions:**
Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
- **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

- **Handling:**
- **Precautions for safe handling**
Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Product may become electrostatically charged. When transferring, earthed pipework shall be used exclusively. Anti-static clothing including shoes are recommended. Use only spark proof tools. Avoid contact with eyes and skin. Do not inhale vapours or mist. Personal protection equipment: see section 8 Follow the legal protection and safety regulations. Observe laboratory hygiene: No eating, drinking or smoking during product use.
- **Information about fire - and explosion protection:** When using do not eat, drink or smoke.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a well-ventilated place. Keep container tightly closed. Keep cool. Always store in containers of the same material as the original container.
Store in a dark, cool and dry place. Store in a cool place.
- **Information about storage in one common storage facility:**
Keep away from strongly acidic and alkaline materials as well as oxidizers.
- **Further information about storage conditions:**
Store carefully closed containers upright to prevent any leaks.
- **Storage class:** 6.1 C
- **Specific end use(s)**
Observe the technical data sheet.

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Adhesives, sealants

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SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see section 7.

· **Control parameters**

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

No data available

75-09-2 dichloromethane (>70.0%)

WEL	Short-term value: 706 mg/m ³ , 200 ppm Long-term value: 353 mg/m ³ , 100 ppm BMGV, Sk
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· **DNELs**

75-09-2 dichloromethane

Oral	DNEL (long-term repeated)	0.06 mg/kg bw/day (Workers)
Dermal	DNEL (Short Term-Acute)	2,395 mg/cm ² (Workers)
Inhalative	DNEL (Short Term Acute)	353 mg/m ³ (Workers)

· **Ingredients with biological limit values:**

No data available

75-09-2 dichloromethane (>70.0%)

BMGV	30 ppm Medium: end-tidal breath Sampling time: post shift Parameter: carbon monoxide
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· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**

Provide good ventilation. This can be achieved with local or room suction. Do not breathe mist/vapours/spray.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

· **Respiratory protection:** Wear respiratory protection in case of insufficient ventilation.

· **Protection of hands:**

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. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles: EN ISO 374



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

NBR (nitrile rubber)

The selection of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.

· **Penetration time of glove material ≥ 0.4 mm**

· **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**

≥ 480 min

· **Eye protection:** Eye glasses with side protection: EN 166

· **Body protection:**

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

· **Limitation and supervision of exposure into the environment**

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:	Liquid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined.

· **pH-value at 20 °C:** 7-8

· **Change in condition**

Melting point/freezing point:	-95.1 °C
Initial boiling point and boiling range:	40 °C

· **Flash point:** -18 °C

· **Flammability (solid, gas):** Not applicable.

· **Auto-ignition temperature:** 605 °C

· **Decomposition temperature:** Not determined.

· **Ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower:	13 Vol %
Upper:	22 Vol %

· **Vapour pressure at 20 °C:** 453 hPa

· **Density at 20 °C:** 1.33 g/cm³

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· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water at 20 °C:	20 g/l
· Partition coefficient: n-octanol/water:	see section 12
· Viscosity:	
Dynamic:	Not applicable.
Kinematic at 20 °C:	0.44 mm ² /s
· Solvent content:	
Organic solvents:	100.0 %
Water:	0.0 %
· Other information	inapplicable

SECTION 10: Stability and reactivity

- **Reactivity** No specific test data related to reactivity available for this product or its ingredients.
- **Chemical stability**
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions**
Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.
- **Conditions to avoid**
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
Hazardous decomposition byproducts may form with exposure to high temperatures e.g.: Carbon dioxide (CO₂), Carbon monoxide, smoke.

SECTION 11: Toxicological information

- **Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

75-09-2 dichloromethane

Oral	LD50	>2,000 mg/kg (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **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.

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· **Experience with humans:**

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: Headache, Dizziness, fatigue, amyosthenia, Dizziness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

· **Additional toxicological information:**

· **Information on other hazards**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

· **Overall assessment on CMR properties** Suspected of causing cancer.

· **Germ cell mutagenicity** May probably cause cancer.

· **Carcinogenicity**

Suspected of causing cancer.

· **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

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

· **Aquatic toxicity:** There is no information available.

· **Persistence and degradability** There is no information available.

· **Behaviour in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **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.

· **Results of PBT and vPvB assessment**

The mixture contains the following substances fulfilling the PBT-/vPvB criteria according to UK REACH Annex XIII

Substance name	Remark
Dichloromethane	CMR

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** There is no information available.

SECTION 13: Disposal considerations

· **Waste treatment methods**

· **Recommendation**

Do not empty into drains; dispose of this material and its container in a safe way. Waste disposal according to directive 2008/98/

EC, covering waste and dangerous waste.

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

· **Waste disposal key:** 140603* - other solvents and solvent mixtures

· **Uncleaned packaging:**

· **Recommendation:**

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· **UN-Number**

· **ADR, IMDG, IATA**

UN1593

· **UN proper shipping name**

· **ADR**

· **IMDG, IATA**

1593 DICHLOROMETHANE

DICHLOROMETHANE

· **Transport hazard class(es)**

· **ADR, IMDG, IATA**



· **Class**

6.1 Toxic substances.

· **Label**

6.1

· **Packing group**

· **ADR, IMDG, IATA**

III

· **Environmental hazards:**

Not applicable.

· **Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

Warning: Toxic substances.

· **Hazard identification number (Kemler code):** 60

· **EMS Number:**

F-A,S-A

· **Segregation groups**

(SGG10) Liquid halogenated hydrocarbons

· **Stowage Category**

A

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

Not to be carried in bulk under the IBC Code.

· **Transport/Additional information:**

Not dangerous according to the above specifications.

· **ADR**

· **Limited quantities (LQ)**

5L

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· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category	2
· Tunnel restriction code	E
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· IATA	inapplicable
· UN "Model Regulation":	UN 1593 DICHLOROMETHANE, 6.1, III

SECTION 15: Regulatory information

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

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

· **Labelling according to Regulation (EC) No 1272/2008**

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

· **Hazard pictograms**



GHS08

· **Signal word Warning**

· **Hazard-determining components of labelling:**

dichloromethane

· **Hazard statements**

H351 Suspected of causing cancer.

· **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

· **Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]**

VOC value: 1330 g/l

· **Directive 2012/18/EU** This product is not classified according to Directive 2012/18/EU.

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **National regulations:** Observe in addition any national regulations!

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to UK REACH**

VNECI - VN

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TSCA - US
 AICS - AU
 DSL - CA
 ENCS (Class 1 and 2) - JP
 IECSC - CN
 Korea Existing Chemicals Inventory(KECI) - KR
 KECL - KR
 PICCS - PH
 · **Chemical safety assessment:** See below.

· **A chemical safety assessment has been carried out for the following substances in this preparation:**

CAS: 75-09-2 EINECS: 200-838-9	dichloromethane	 Carc. 2, H351
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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**
H351 Suspected of causing cancer.
- **Classification according to Regulation (EC) No 1272/2008**
Carc. 2 On basis of test data.
- **Department issuing SDS:** Anwendungstechnik
- **Contact:**
Beratung technicoll
Tel.: +49 (0)8106 / 24608-33
Mail: Beratung@technicoll.de
- **Abbreviations and acronyms:**
 ADR: Accord relatif au transport international 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)
 DNEL: Derived No-Effect Level (UK REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Carc. 2: Carcinogenicity – Category 2
- **Sources**
The preparation of the safety data sheet is based on the information provided by our raw material suppliers.
- *** Data compared to the previous version altered.**
Data changed compared with the previous version.

Annex: Exposure scenario

- **Description of the activities / processes covered in the Exposure Scenario**
See section 1 of the annex to the Safety Data Sheet.

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- **Conditions of use**
- **Duration and frequency** 5 workdays/week.
- **Physical parameters**
- **Physical state** Liquid
- **Concentration of the substance in the mixture** The substance is main component.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting worker exposure**
 Avoid contact with eyes.
 Avoid contact with the skin.
 Take precautionary measures against static discharge.
 Keep away from sources of ignition - No smoking.
- **Other operational conditions affecting consumer exposure** No special measures required.
- **Other operational conditions affecting consumer exposure during the use of the product**
 Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures**
 Ensure that suitable extractors are available on processing machines
 Provide explosion-proof electrical equipment.
- **Personal protective measures**
 Do not inhale gases / fumes / aerosols.
 Avoid contact with the skin.
 Avoid contact with the eyes.
 Tightly sealed goggles
 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. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles: EN ISO 374
 Protective gloves
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Measures for consumer protection** Ensure adequate labelling.
- **Environmental protection measures**
- **Water** No special measures required.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures**
 Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.