

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### GermanBond CLT Evolution

Revision date: 04.05.2018

Product code: 41

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

### 1.1. Product identifier

GermanBond CLT Evolution

REACH Registration Number: 01-2119480404-  
 CAS No: 75-09-2  
 Index No: 602-004-00-3  
 EC No: 200-838-9

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

#### Use of the substance/mixture

Solvents/Thinner

#### Uses advised against

for professional use only

### 1.3. Details of the supplier of the safety data sheet

Company name: germanBelt GmbH  
 Street: Carl-Vollrath-Str. 8  
 Place: D-07422 Bad Blankenburg  
 Telephone: +49 (0)36741 / 5680-0  
 e-mail: sales@germanbelt.de  
 Telefax: +49 (0)36741 / 5680-70

### 1.4. Emergency telephone number:

Giftnotruf England: +44 (171) 635 91 91, Giftnotruf England: +44 (171) 635 91 91, Giftnotruf Norwegen: +47 (22) 591 300,

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories:

Carcinogenicity: Carc. 2

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Suspected of causing cancer.

Causes skin irritation.

Causes serious eye irritation.

May cause drowsiness or dizziness.

### 2.2. Label elements

#### Regulation (EC) No. 1272/2008

#### Hazard components for labelling

dichloromethane, methylene chloride

Signal word: Warning

#### Pictograms:



#### Hazard statements

H319 Causes serious eye irritation.  
 H315 Causes skin irritation.  
 H336 May cause drowsiness or dizziness.  
 H351 Suspected of causing cancer.

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#### Precautionary statements

|                |  |
|----------------|--|
| P405           | Store locked up.   |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308+P313      | IF exposed or concerned: Get medical advice/attention.   |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P260           | Do not breathe dust/fume/gas/mist/vapours/spray.   |
| P201           | Obtain special instructions before use.  |

#### Special labelling of certain mixtures

Restricted to professional users.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

##### Chemical characterization

Solvent

##### Hazardous components

| CAS No  | Chemical name  |              |                       | Quantity |
|---------|--|--------------|-----------------------|----------|
|         | EC No  | Index No     | REACH No              |          |
|         | Classification according to Regulation (EC) No. 1272/2008 [CLP]      |              |                       |          |
| 75-09-2 | dichloromethane, methylene chloride                                  |              |                       | 100 %    |
|         | 200-838-9  | 602-004-00-3 | 01-2119480404-41-XXXX |          |
|         | Carc. 2, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H351 H315 H319 H336 |              |                       |          |

Full text of H and EUH statements: see section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Remove contaminated, saturated clothing immediately. First aider: Pay attention to self-protection!

##### After inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

##### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

##### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

##### After ingestion

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person or a person with cramps. Do NOT induce vomiting. Call a physician immediately.

#### 4.2. Most important symptoms and effects, both acute and delayed

Headache, Dizziness, Ingestion causes nausea, weakness and central nervous system effects.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

### SECTION 5: Firefighting measures

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#### 5.1. Extinguishing media

##### **Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

##### **Unsuitable extinguishing media**

Full water jet

#### 5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide, Hydrochloric gas, Phosgene, Chlorine (Cl<sub>2</sub>)

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Wear suitable protective clothing.

#### **Additional information**

Pressurised container: May burst if heated. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Avoid contact with eyes and skin. Do not breathe gas/fumes/vapour/spray.

#### 6.2. Environmental precautions

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

#### 6.3. Methods and material for containment and cleaning up

Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Suitable material for taking up: Sand, Kieselguhr, Earth, Vermiculit

#### 6.4. Reference to other sections

Personal protection equipment: see section 8, Disposal: see section 13

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### **Advice on safe handling**

Keep container tightly closed. Provide adequate ventilation. Avoid contact with eyes and skin. Do not breathe gas/vapour/aerosol.

##### **Advice on protection against fire and explosion**

Keep away from heat. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children. The floor should be leak tight, jointless and not absorbent.

##### **Further information on handling**

Remove contaminated, saturated clothing immediately. When using do not eat, drink, smoke, sniff.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### **Requirements for storage rooms and vessels**

Suitable container/equipment material: Steel, Glass; Unsuitable container/equipment material: Light metals, Aluminium, Zinc

##### **Advice on storage compatibility**

Keep away from food, drink and animal feedingstuffs. Oxidising agent

##### **Further information on storage conditions**

storage temperature: ≤ 20°C

#### 7.3. Specific end use(s)

Adhesives, sealants

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**SECTION 8: Exposure controls/personal protection**
**8.1. Control parameters**
**Exposure limits (EH40)**

| CAS No  | Substance       | ppm | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|---------|-----------------|-----|-------------------|-----------|---------------|--------|
| 75-09-2 | Dichloromethane | 100 | 350               |           | TWA (8 h)     | WEL    |
|         |                 | 300 | 1060              |           | STEL (15 min) | WEL    |

**Biological Monitoring Guidance Values (EH40)**

| CAS No  | Substance       | Parameter       | Value  | Test material    | Sampling time |
|---------|-----------------|-----------------|--------|------------------|---------------|
| 75-09-2 | Dichloromethane | carbon monoxide | 30 ppm | end-tidal breath | Post shift    |

**DNEL/DMEL values**

| CAS No                   | Substance                           | Exposure route | Effect   | Value                  |
|--------------------------|-------------------------------------|----------------|----------|------------------------|
| 75-09-2                  | dichloromethane, methylene chloride |                |          |                        |
| Worker DNEL, long-term   |                                     | inhalation     | systemic | 353 mg/m <sup>3</sup>  |
| Worker DNEL, acute       |                                     | inhalation     | systemic | 706 mg/m <sup>3</sup>  |
| Worker DNEL, long-term   |                                     | dermal         | systemic | 12 mg/kg bw/day        |
| Consumer DNEL, long-term |                                     | inhalation     | systemic | 88,3 mg/m <sup>3</sup> |
| Consumer DNEL, acute     |                                     | inhalation     | systemic | 353 mg/m <sup>3</sup>  |
| Consumer DNEL, long-term |                                     | dermal         | systemic | 5,82 mg/kg bw/day      |
| Consumer DNEL, long-term |                                     | oral           | systemic | 0,06 mg/kg bw/day      |

**PNEC values**

| CAS No   | Substance                           | Value       |
|--|-------------------------------------|-------------|
| 75-09-2  | dichloromethane, methylene chloride |             |
| Freshwater                                       |                                     | 0,31 mg/l   |
| Marine water                                     |                                     | 0,031 mg/l  |
| Freshwater sediment                              |                                     | 2,57 mg/kg  |
| Marine sediment                                  |                                     | 0,262 mg/kg |
| Micro-organisms in sewage treatment plants (STP) |                                     | 26 mg/l     |
| Soil   |                                     | 0,33 mg/kg  |

**8.2. Exposure controls**
**Appropriate engineering controls**

Safe handling: see section 7, See section 8.

**Protective and hygiene measures**

When using do not eat, drink, smoke, sniff.

**Eye/face protection**

Wear eye/face protection.

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#### Hand protection

Suitable material: FKM (fluoro rubber), Polyethylene (PE) Thickness of the glove material: 0,4 mm,  
Breakthrough time (maximum wearing time): 8 h; Unsuitable material: PVC (polyvinyl chloride), CR  
(polychloroprene, chloroprene rubber)

#### Skin protection

Wear suitable protective clothing.

#### Respiratory protection

Use appropriate respiratory protection. Typ: AX, Colour: brown,

#### Environmental exposure controls

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                 |            |
|-----------------|------------|
| Physical state: | Liquid     |
| Colour:         | colourless |
| Odour:          | sweetish   |

#### Changes in the physical state

|  |                         |
|--|-------------------------|
| Initial boiling point and boiling range: | 40 °C                   |
| Lower explosion limits:                  | 13 vol. %               |
| Upper explosion limits:                  | 22 vol. %               |
| Vapour pressure:<br>(at 20 °C)           | 475 hPa                 |
| Density:                                 | 1,33 g/cm <sup>3</sup>  |
| Water solubility:<br>(at 20 °C)          | 13,7 g/L                |
| Viscosity / dynamic:<br>(at 22 °C)       | 0,41 mPa·s              |
| Viscosity / kinematic:<br>(at 25 °C)     | 0,31 mm <sup>2</sup> /s |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

Heating causes rise in pressure with risk of bursting. Reacts with : alkali metals

### 10.4. Conditions to avoid

Do not store at temperatures above 25°C, Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5. Incompatible materials

Materials to avoid: Amines, Nitric acid, Oxidising agent, strong, Powdered metals, Alkali (lye)

### 10.6. Hazardous decomposition products

Hydrogen chloride (HCl), Chlorine (Cl<sub>2</sub>), Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, Phosgene

## SECTION 11: Toxicological information

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**11.1. Information on toxicological effects**
**Acute toxicity**

| CAS No  | Chemical name                       |                   |         |          |        |
|---------|-------------------------------------|-------------------|---------|----------|--------|
|         | Exposure route                      | Dose              | Species | Source   | Method |
| 75-09-2 | dichloromethane, methylene chloride |                   |         |          |        |
|         | oral                                | LD50 > 2000 mg/kg | Rat     | OECD 401 |        |
|         | dermal                              | LD50 > 2000 mg/kg | Rat     | OECD 402 |        |
|         | inhalative (4 h) vapour             | LC50 86 mg/l      | Mouse   |          |        |

**SECTION 12: Ecological information**
**12.1. Toxicity**

| CAS No  | Chemical name                       |               |           |                                      |          |        |
|---------|-------------------------------------|---------------|-----------|--------------------------------------|----------|--------|
|         | Aquatic toxicity                    | Dose          | [h]   [d] | Species                              | Source   | Method |
| 75-09-2 | dichloromethane, methylene chloride |               |           |                                      |          |        |
|         | Acute fish toxicity                 | LC50 193 mg/l | 96 h      | Pimephales promelas (fathead minnow) |          |        |
|         | Fish toxicity                       | NOEC 83 mg/l  | 28 d      | Pimephales promelas (fathead minnow) |          |        |
|         | Acute bacteria toxicity             | (2590 mg/l)   |           | Activated sludge, 40 min             | OECD 209 |        |

**12.2. Persistence and degradability**

| CAS No  | Chemical name   |       |    |        |  |
|---------|---|-------|----|--------|--|
|         | Method  | Value | d  | Source |  |
|         | Evaluation  |       |    |        |  |
| 75-09-2 | dichloromethane, methylene chloride   |       |    |        |  |
|         |   | 68 %  | 28 |        |  |
|         | Readily biodegradable (according to OECD criteria). OECD 301D/ EEC 92/69/V, C.4-E |       |    |        |  |

**12.3. Bioaccumulative potential**
**Partition coefficient n-octanol/water**

| CAS No  | Chemical name                       | Log Pow |
|---------|-------------------------------------|---------|
| 75-09-2 | dichloromethane, methylene chloride | 1,25    |

**BCF**

| CAS No  | Chemical name                       | BCF    | Species | Source |
|---------|-------------------------------------|--------|---------|--------|
| 75-09-2 | dichloromethane, methylene chloride | 2 - 40 |         |        |

**12.6. Other adverse effects**

Do not allow to enter into surface water or drains.

**SECTION 13: Disposal considerations**
**13.1. Waste treatment methods**
**Advice on disposal**

Dispose of waste according to applicable legislation.

**Waste disposal number of waste from residues/unused products**

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080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

**Contaminated packaging**

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information**
**Land transport (ADR/RID)**

**14.1. UN number:** UN 1593  
**14.2. UN proper shipping name:** DICHLOROMETHANE  
**14.3. Transport hazard class(es):** 6.1  
**14.4. Packing group:** III  
 Hazard label: 6.1



Classification code: T1  
 Special Provisions: 516  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 Transport category: 2  
 Hazard No: 60  
 Tunnel restriction code: E

**Inland waterways transport (ADN)**

**14.1. UN number:** UN 1593  
**14.2. UN proper shipping name:** DICHLOROMETHANE  
**14.3. Transport hazard class(es):** 6.1  
**14.4. Packing group:** III  
 Hazard label: 6.1



Classification code: T1  
 Special Provisions: 516 802  
 Limited quantity: 5 L  
 Excepted quantity: E1

**Marine transport (IMDG)**

**14.1. UN number:** UN 1593  
**14.2. UN proper shipping name:** DICHLOROMETHANE  
**14.3. Transport hazard class(es):** 6.1  
**14.4. Packing group:** III  
 Hazard label: 6.1

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|                     |          |
|---------------------|----------|
| Marine pollutant:   | no       |
| Special Provisions: | -        |
| Limited quantity:   | 5 L      |
| Excepted quantity:  | E1       |
| EmS:                | F-A, S-A |

**Air transport (ICAO-TI/IATA-DGR)**

|  |                 |
|--|-----------------|
| <b>14.1. UN number:</b>                  | UN 1593         |
| <b>14.2. UN proper shipping name:</b>    | DICHLOROMETHANE |
| <b>14.3. Transport hazard class(es):</b> | 6.1             |
| <b>14.4. Packing group:</b>              | III             |
| Hazard label:                            | 6.1             |



|  |       |
|--|-------|
| Limited quantity Passenger:            | 2 L   |
| Passenger LQ:                          | Y642  |
| Excepted quantity:                     | E1    |
| IATA-packing instructions - Passenger: | 655   |
| IATA-max. quantity - Passenger:        | 60 L  |
| IATA-packing instructions - Cargo:     | 663   |
| IATA-max. quantity - Cargo:            | 220 L |

**SECTION 15: Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 59: dichloromethane, methylene chloride

|   |  |
|---|--|
| 2010/75/EU (VOC):                                 | 100 % (1330 g/l)                       |
| 2004/42/EC (VOC):                                 | 100 % (1330 g/l)                       |
| Information according to 2012/18/EU (SEVESO III): | Not subject to 2012/18/EU (SEVESO III) |

**Additional information**

Dichloromethane: EU.REACH, Anhang XVII, Nr. 3, Nr. 59; EU.REACH, Anhang XVII, EG-Nr. 200-838-9;

**National regulatory information**

|                          |  |
|--------------------------|--|
| Employment restrictions: | Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age. |
|--------------------------|--|

|                                |                                 |
|--------------------------------|---------------------------------|
| Water contaminating class (D): | 2 - clearly water contaminating |
|--------------------------------|---------------------------------|

**Additional information**

§ 3 ChemVerbotsV

**SECTION 16: Other information**
**Changes**



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This data sheet contains changes from the previous version in section(s): 15.

**Relevant H and EUH statements (number and full text)**

|      |                                    |
|------|------------------------------------|
| H315 | Causes skin irritation.            |
| H319 | Causes serious eye irritation.     |
| H336 | May cause drowsiness or dizziness. |
| H351 | Suspected of causing cancer.       |

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.