

Safety Data Sheet

according to Regulation (EC) No 1907/2006

GermanBond 2kR Evolution

Revision date: 24.04.2018

Product code: 24

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SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier

GermanBond 2kR Evolution

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

Adhesives, sealants

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	Telefax: +49 (0)36741 / 5680-70
e-mail:	sales@germanbelt.de	

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:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Carcinogenicity: Carc. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes serious eye irritation.

Causes skin irritation.

May cause drowsiness or dizziness.

Suspected of causing cancer.

Toxic to aquatic life with long lasting effects.

2.2. Label elements
Regulation (EC) No. 1272/2008
Hazard components for labelling

Dichloromethane, tetrachloroethylene, Rosin, colophony

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.
H411	Toxic to aquatic life with long lasting effects.

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Precautionary statements

P501	Dispose of contents/container to according to local regulations.
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.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.

Special labelling of certain mixtures

EUH208	Contains Rosin, colophony. May produce an allergic reaction. Restricted to professional users.
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

dissolved with fillers synthetic rubber in dichloromethane (methylene chloride) and tetrachlorethylene (perchloroethylene)

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			40 - 80 %
	200-838-9	602-004-00-3	01-2119480404-41	
	Carc. 2, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H351 H315 H319 H336			
127-18-4	tetrachloroethylene			10 - 50 %
	204-825-9	602-028-00-4		
	Carc. 2, Repr. 2, Aquatic Chronic 2; H351 H361d H411			
1314-13-2	zinc oxide			< 1 %
	215-222-5	030-013-00-7		
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410			
8050-09-7	Rosin, colophony			0,1 - 1 %
	232-475-7	650-015-00-7		
	Skin Sens. 1; H317			

Full text of H and EUH statements: 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).

After inhalation

In case of inhaling spray mist, consult a physician.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

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.

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After ingestion

Call a physician immediately.

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

No data available

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Atomized water. alcohol resistant foam. Extinguishing powder

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Carbon monoxide

5.3. Advice for firefighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove persons to safety., Provide adequate ventilation. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

When using do not eat, drink, smoke, sniff., Avoid contact with skin, eyes and clothes., Remove contaminated, saturated clothing immediately., Thorough skin-cleansing after handling the product., Apply skin care products after work.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Further information on handling

Avoid exposure - obtain special instructions before use., If handled uncovered, arrangements with local exhaust ventilation have to be used., Do not spray on naked flames or any incandescent material.

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: Zinc, Aluminium, Provide for retaining containers, eg. floor pan without outflow.

Advice on storage compatibility

Keep away from: Food and feedingstuffs, Oxidising agent,

Further information on storage conditions

Keep container tightly closed. Keep in a cool, well-ventilated place. Avoid: UV-radiation/sunlight, storage

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temperature: + 10 - +20°C

7.3. Specific end use(s)

Adhesives, sealants

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
75-09-2	Dichloromethane	100	350		TWA (8 h)	WEL
		300	1060		STEL (15 min)	WEL
127-18-4	Tetrachloroethylene	50	345		TWA (8 h)	WEL
		100	689		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 ³
	Worker DNEL, acute	inhalation	systemic	706 mg/m ³
	Worker DNEL, long-term	dermal	systemic	12 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	88,3 mg/m ³
	Consumer DNEL, acute	inhalation	systemic	353 mg/m ³
	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

See section 8. Safe handling: see section 7

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Protective and hygiene measures

Wash hands before breaks and after work. Do not eat, drink or smoke when using this product.

Eye/face protection

Wear eye/face protection.

Hand protection

Suitable material: PVA (Polyvinyl alcohol), FKM (fluoro rubber) , Thickness of the glove material: $\geq 0,4$ mm, Breakthrough time (maximum wearing time): 480 min

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:	black
Odour:	sweetish

Changes in the physical state

Initial boiling point and boiling range:	40 °C
Flash point:	not applicable
Lower explosion limits:	13 vol. %
Upper explosion limits:	22 vol. %
Vapour pressure: (at 20 °C)	475 hPa
Density (at 20 °C):	1,35 g/cm ³
Viscosity / dynamic: (at 20 °C)	ca. 2300 mPa·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

Carbon dioxide (CO₂). Carbon monoxide Chlorine (Cl₂), Hydrogen chloride (HCl), Phosgene

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SECTION 11: Toxicological information
11.1. Information on toxicological effects
Acute toxicity

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

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		
127-18-4	tetrachloroethylene				
	oral	LD50 2629 mg/kg	Rat		
	inhalative (4 h) vapour	LC50 27,6 mg/l	Rat		
1314-13-2	zinc oxide				
	oral	LD50 1500 mg/kg	Rat	OECD 401	

Irritation and corrosivity

Causes serious eye irritation.

Causes skin irritation.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (dichloromethane, methylene chloride; tetrachloroethylene)

Germ cell mutagenicity: 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. (dichloromethane, methylene chloride)

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

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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
127-18-4	tetrachloroethylene					
	Acute fish toxicity	LC50	5 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute crustacea toxicity	EC50	22 mg/l	48 h	Daphnia magna (Big water flea)	
8050-09-7	Rosin, colophony					
	Acute fish toxicity	LC50	< 10 mg/l	96 h	Brachydanio rerio	OECD 203
	Acute crustacea toxicity	EC50	911 mg/l	48 h	Daphnia magna	OECD 202

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			
127-18-4	tetrachloroethylene			
		11 %	28	
	Not readily biodegradable (according to OECD criteria)			

12.3. Bioaccumulative potential
Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
75-09-2	dichloromethane, methylene chloride	1,25
127-18-4	tetrachloroethylene	3,4

BCF

CAS No	Chemical name	BCF	Species	Source
75-09-2	dichloromethane, methylene chloride	2 - 40		
127-18-4	tetrachloroethylene	49		ECHA

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

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations
13.1. Waste treatment methods

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Advice on disposal

Disposal: according to local regulations

Waste disposal number of waste from residues/unused products


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


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

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	UN 2810
14.2. UN proper shipping name:	TOXIC LIQUID, ORGANIC, N.O.S. (dichloromethane, methylene chloride, tetrachloroethylene)
14.3. Transport hazard class(es):	6.1
14.4. Packing group:	III
Hazard label:	6.1
	
Classification code:	T1
Special Provisions:	274 614
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 2810
14.2. UN proper shipping name:	TOXIC LIQUID, ORGANIC, N.O.S. (dichloromethane, methylene chloride, tetrachloroethylene)
14.3. Transport hazard class(es):	6.1
14.4. Packing group:	III
Hazard label:	6.1
	
Classification code:	T1
Special Provisions:	274 614 802
Limited quantity:	5 L
Excepted quantity:	E1

Marine transport (IMDG)

14.1. UN number:	UN 2810
14.2. UN proper shipping name:	TOXIC LIQUID, ORGANIC, N.O.S. (dichloromethane, methylene chloride, tetrachloroethylene)

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14.3. Transport hazard class(es): 6.1

14.4. Packing group: III

Hazard label: 6.1



Special Provisions: 223, 274

Limited quantity: 5 L

Excepted quantity: E1

EmS: F-A, S-A

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 2810

14.2. UN proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S.

14.3. Transport hazard class(es): 6.1

14.4. Packing group: III

Hazard label: 6.1



Special Provisions: A3 A4 A137

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

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: tetrachloroethylene

14.6. Special precautions for user

Hazard identification number (Kemler No.): 60 Contains halogenated hydrocarbons.

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

not applicable

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): 87 %

2004/42/EC (VOC): 87 %

Additional information

Perchloroethylene: VO(EG)Nr.1907/2006, REACH Anhang XVII Nr. 3

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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.
Water contaminating class (D):	3 - highly water contaminating

SECTION 16: Other information

Changes

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.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH208	Contains Rosin, colophony. May produce an allergic reaction.

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.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)