

Safety Data Sheet

according to Regulation (EC) No 1907/2006

GermanBond HS

Revision date: 04.05.2018

Product code: 30

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

GermanBond HS

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

Adhesives, sealants

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:

Flammable liquid: Flam. Liq. 2

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Highly flammable liquid and vapour.

Causes serious eye irritation.

Causes skin irritation.

May cause drowsiness or dizziness.

Toxic to aquatic life with long lasting effects.

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

butanone; ethyl methyl ketone , Gasoline

Signal word: Danger

Pictograms:

Hazard statements

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P501	Dispose of contents/container to industrial incineration plant.
P273	Avoid release to the environment.

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P243	Take action to prevent static discharges.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P102	Keep out of reach of children.

Special labelling of certain mixtures

EUH066	Repeated exposure may cause skin dryness or cracking.
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SECTION 3: Composition/information on ingredients
3.2. Mixtures
Chemical characterization

Mixture in organic solvents

Hazardous components

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
	Kohlenwasserstoffe, C7, n-Alkane, iso-Alkane, zyklisch	30 - 60 %
	927-510-4	01-2119475515-33
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411	
	Kohlenwasserstoffe, C6-C7, n-Alkane, iso-Alkane, zyklische Verbindungen, < 5 % Hexan	30 - 60 %
	921-024-6	01-2119475514-35
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411	
78-93-3	butanone; ethyl methyl ketone	< 30 %
	201-159-0	606-002-00-3
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066	
1314-13-2	zinc oxide	< 3 %
	215-222-5	030-013-00-7
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410	
61789-51-3	Cobaltnaphthenat	< 0,4 %
	263-064-0	
	Repr. 2, Acute Tox. 4, Resp. Sens. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H361 H302 H334 H317 H400 H410	
26780-96-1	2,2,4-Trimethyl-1,2-dihydrochinolin (TMQ)	< 0,2 %
	500-051-3	
	Aquatic Chronic 3; H412	
149-30-4	benzothiazole-2-thiol	< 0,1 %
	205-736-8	613-108-00-3
	Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H317 H400 H410	
7704-34-9	sulfur	< 0,05 %
	231-722-6	016-094-00-1
	Skin Irrit. 2; H315	
135-57-9	Di-benzamido-diphenyl-disulfid	< 0,03 %
	205-201-9	
	Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H317 H400 H410	

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

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove affected person from the danger area and lay down. Transport affected person in lying position, in case of shortness of breath in half-sitting position. Remove contaminated, saturated clothing immediately. Call a physician immediately.

After inhalation

In case of respiratory tract irritation, consult a physician. Provide fresh air.

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

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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

Water mist, Foam, Carbon dioxide (CO₂), Water spray, Sand

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, Carbon dioxide (CO₂), In case of fire and/or explosion do not breathe fumes.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Vapours are heavier than air, spread along floors and form explosive mixtures with air., Wear personal protection equipment (refer to section 8). , Provide adequate ventilation.

6.2. Environmental precautions

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Do not allow to enter into soil/subsoil.

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).

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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

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking., Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Take precautionary measures against static discharges.

Further information on handling

Splashproof grounded devices

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels

 Keep container tightly closed in a cool, well-ventilated place. storage temperature: $\leq 20^{\circ}\text{C}$
Advice on storage compatibility

Do not store together with: Food and feedingstuffs, Oxidising agent

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

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

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
		300	899		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	butan-2-one	70 $\mu\text{mol/L}$	urine	Post shift

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DNEL/DMEL values

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
	Kohlenwasserstoffe, C7, n-Alkane, iso-Alkane, zyklisch		
Worker DNEL, long-term	dermal		300 mg/kg bw/day
Worker DNEL, long-term	inhalation		2085 mg/m ³
Consumer DNEL, long-term	oral		149 mg/kg bw/day
Consumer DNEL, long-term	dermal		149 mg/kg bw/day
Consumer DNEL, long-term	inhalation		447 mg/m ³
78-93-3	butanone; ethyl methyl ketone		
Worker DNEL, long-term	dermal	systemic	1161 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	600 mg/m ³
Consumer DNEL, long-term	inhalation	systemic	106 mg/m ³
Consumer DNEL, long-term	oral	systemic	31 mg/kg bw/day

PNEC values

CAS No	Substance	
Environmental compartment	Value	
78-93-3	butanone; ethyl methyl ketone	
Freshwater	55,8 mg/l	
Marine water	55,8 mg/l	
Micro-organisms in sewage treatment plants (STP)	709 mg/l	
Soil	22,5 mg/kg	

Additional advice on limit values

 AGW (DE), TRGS 900 Nr. 2,9 , Mixtures Hydrocarbons: 1000 mg/m³
8.2. Exposure controls
Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Protective and hygiene measures

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

Eye/face protection

Wear eye/face protection.

Hand protection

Suitable material: FKM (fluoro rubber), NBR (Nitrile rubber), Thickness of the glove material: 0,35 - 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

Respiratory protection necessary at: exceeding exposure limit values, Filtering device (full mask or mouthpiece) with filter: A

Environmental exposure controls

Discharge into the environment must be avoided. Do not allow uncontrolled discharge of product into the environment.

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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	black
Odour:	Gasoline

Changes in the physical state

Initial boiling point and boiling range:	60 - 105 °C
Flash point:	< 0 °C
Lower explosion limits:	0,6 vol. %
Upper explosion limits:	7,2 vol. %
Vapour pressure: (at 20 °C)	60 - 85 hPa
Density (at 20 °C):	0,75 g/cm ³
Viscosity / dynamic: (at 20 °C)	ca. 900 mPa·s

9.2. Other information

Solid content:	ca. 20 %
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SECTION 10: Stability and reactivity**10.1. Reactivity**

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

The product 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.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Oxidising agent

10.6. Hazardous decomposition products

Carbon monoxide, Carbon dioxide (CO₂)

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

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Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
	Kohlenwasserstoffe, C7, n-Alkane, iso-Alkane, zyklisch				
	inhalative (4 h) vapour	LC50 23,3 mg/l	Rat		
	Kohlenwasserstoffe, C6-C7, n-Alkane, iso-Alkane, zyklische Verbindungen, < 5 % Hexan				
	inhalative (4 h) vapour	LC50 >23,3 mg/l	Rat		
78-93-3	butanone; ethyl methyl ketone				
	oral	LD50 >2193 mg/kg	Rat	OECD 423	
	dermal	LD50 >5000 mg/kg	Rabbit	OECD 402	
	inhalative (4 h) vapour	LC50 34 mg/l	Rat		
1314-13-2	zinc oxide				
	oral	LD50 1500 mg/kg	Rat	OECD 401	
61789-51-3	Cobaltnaphthenat				
	oral	ATE 500 mg/kg			
7704-34-9	sulfur				
	oral	LD50 > 5000 mg/kg	Rat		

SECTION 12: Ecological information
12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
78-93-3	butanone; ethyl methyl ketone					
	Acute fish toxicity	LC50 2990 mg/l	96 h	Pimephales promelas (fathead minnow)	OECD 203	
	Acute crustacea toxicity	EC50 308 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202	
7704-34-9	sulfur					
	Acute fish toxicity	LC50 866 mg/l	96 h	Danio rerio		

12.2. Persistence and degradability

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
78-93-3	butanone; ethyl methyl ketone				
	OECD 301D/ EEC 92/69/V, C.4-E	98 %	28		
	Readily biodegradable (according to OECD criteria).				

12.3. Bioaccumulative potential
Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
78-93-3	butanone; ethyl methyl ketone	0,3

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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

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 1133
14.2. UN proper shipping name: Adhesives
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Classification code: F1
 Limited quantity: 5 L
 Excepted quantity: E1
 Transport category: 3
 Tunnel restriction code: E

Inland waterways transport (ADN)

14.1. UN number: UN 1133
14.2. UN proper shipping name: Adhesives
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Classification code: F1
 Limited quantity: 5 L
 Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number: UN 1133
14.2. UN proper shipping name: Adhesives
14.3. Transport hazard class(es): 3

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14.4. Packing group:

III

Hazard label:

3



Marine pollutant:

yes

Special Provisions:

223, 955

Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-E, S-D

Air transport (ICAO-TI/IATA-DGR)
14.1. UN number:

UN 1133

14.2. UN proper shipping name:

Adhesives

14.3. Transport hazard class(es):

3

14.4. Packing group:

III

Hazard label:

3



Special Provisions:

A3

Limited quantity Passenger:

10 L

Passenger LQ:

Y344

Excepted quantity:

E1

IATA-packing instructions - Passenger:

355

IATA-max. quantity - Passenger:

60 L

IATA-packing instructions - Cargo:

366

IATA-max. quantity - Cargo:

220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

yes


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

2010/75/EU (VOC):

80 %

2004/42/EC (VOC):

80 %

Information according to 2012/18/EU (SEVESO III):

E2 Hazardous to the Aquatic Environment

Additional information:

P5c

National regulatory information

Employment restrictions:

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

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SECTION 16: Other information**Relevant H and EUH statements (number and full text)**

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or 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.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

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.)