



SAFETY DATA SHEET
according to regulation 1907/2006/EC

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1. Identification of the substance / mixture and of the company / undertaking

Trade name : BÖRNER® Bitumen membranes for roofing and construction

SKBit-, ELMO-, POLY-Elast-, DACO-, MULTIPLEX-, MONOPLEX-, OK- und GW-line, EriKa, MONOPLEX SBS, DECO- Bit, Bivitex , G200DD, V13, bitumenfelts

Relevant identified uses: Bitumen membranes are used for all types of roofing needs, air barrier and waterproofing protection.

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2. Hazards identification

The solid product is not hazardous.

All following hazards refer to the partial melted hot product above 100°C during application!

Classification according regulation EC No. 1272/2008 not classified according CLP- regulation

Classification according regulation 67/548/EWG or 1999/45/EC none

Main hazards: none (solid product), second-degree burn (during application by gas-torch > 100°C)

Physical / chemical hazards: see section 10

Environmental hazards: none

Other hazards: Danger of second- degree burn during application by gas-torch of the product. Contact of molten hot product with water, may occur explosively boiling of water and splash of hot product.

Labelling / symbols: none

R-phrases: none

Results of PBT / vPvB – appreciation not applicable

3. Composition / informations on ingredients

Chemical characterisation: Compound of bitumen, polymers, mineral fillers, textile reinforcements, stabilizers

Substance	CAS	EINECS/ELINCS	Concentration	Symbols	R-phrases
Bitumen	8052-42-4	232-490-9	30 - 60 %		

(R- phrases see section 16)

4. First aid measures

The solid product is not hazardous.

All following hazards refer to the partial melted hot product above 100°C during application!

General notes:	Remove polluted clothing, wash and cool thoroughly with plenty of water.
Inhalation:	Move the exposed person to fresh air. Seek medical attention if necessary.
Skin contact:	Wash off immediately with plenty of water for rapid cooling. Do not remove solidified product from the skin! Seek medical attention.
Eye contact:	Rinse immediately with plenty of water for 10 minutes holding the eyelids open. Seek medical attention.
Ingestion:	Rinse the mouth thoroughly with water, give copious water to drink. Seek medical attention if irritation or symptoms persist. Danger of aspiration of the fumes.

5. Firefighting measures

Suitable extinguishing media:	Dry extinguisher, CO ₂ , foam, dry sand, water jet spray. Use extinguishing media appropriate the surrounding fire conditions.
Unsuitable extinguishing media:	High volume water jet
Special hazards arising from the substance or mixture:	In case of fire toxic pyrolysis products and oxides of carbon may arise. Vapours may be heavier than air, and explode in mixture with air. Flashback to distance sources of ignition is possible.
Advice for firefighters:	Do not breathe fumes. Wear protective respirator with independent air supply. Full protection, if necessary. Observe safe distance. Cool container at risk with water.
Other details:	Dispose of contaminated extinction water according to official regulations.

6. Accidental release measures

Personal precautions, protective equipment:	Avoid contact of hot melted product to eyes and skin. During application wear protective clothing, gloves, footwear and goggles. Ensure sufficient supply of air.
Environmental precautions:	none
Methods and material for containment and cleaning up :	Damp hot molten product with dry sand or mineral material. Solidified product can be collected mechanically.

7. Handling and storage

Precautions for safe handling:	Ensure good ventilation. Use working methods according to the operating instructions. Do not heat up in excess of the recommended application temperature. Avoid contact of water to the hot melted product.
Conditions for safe storage, including any incompatibilities:	Store in a cool, dry place. Protect from direct sunlight and warming. Avoid contact with strong oxidizing agents.

8. Exposure controls / personal protection

Appropriate engineering controls:	Ensure good ventilation. If it is insufficient to maintain the concentration under the WEL values, suitable breathing protection should be worn. Never work in an enclosed area where gas can accumulate.
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Control parameters: WEL-TWA, (workplace exposure limit) for hot applied bitumen:
10 mg/m³ (TRGS 901-77)

Individual protection measures: -

Respiratory protection: Do not breathe fumes. Wear suitable respiratory equipment when necessary. Use Filter A2/P2

Handprotection: Wear heat protective gloves and shoes.

Eye / face protection: Wear eye/face protection. Use approved safety goggles or face shield.

Skin protection: Wear protective clothing.

: General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing.

Environmental exposure controls: no information available

9. Physical and chemical properties

Physical state: solid
Color: brown to black / surface color/natural slated or sanded
Odor: characteristic like asphalt

pH-value: not applicable
Melting point: between 80 – 140 °C (softening point ring and ball, EN 1427)
(depending on composition)

Flash point: > 200°C
Inflammation point: > 300°C
Decomposition temperature: > 300°C

Explosive properties: no
Explosive limits: not applicable
Vapour pressure 20 °C: not applicable
Density at 20 °C: between 1,0 – 1,2 g/cm³ (depending on composition)
Solubility / miscibility
- water at 20°C: insoluble
- organic solvents: soluble
Viscosity at 23 °C: solid

10. Stability and reactivity

Conditions to avoid: Do not heat up in excess of the recommended application temperature. Avoid contact of water to the particular molten hot product.

Incompatible materials: Avoid contact with strong oxidizing agents.

Hazardous decomposition products: No decomposition when used as directed.
In case of excessive heat or fire toxic pyrolysis products and oxides of carbon may arise. Vapours may be heavier than air, and explode in mixture with air.

11. Toxicological information

The product is not toxic, but has not been separately tested.

The toxicological classification is calculated according calculation procedure 1999/45/EC.

Adverse health effects are not known.

Substance	CAS-Number	EINECS	Method	Value	Spezies
Bitumen	8052-42-4	232-490-9	LD.50	oral > 5000 mg/kg	rat

Irritation of eye:	no (cold product)
Irritation of skin:	no (cold product)
Sensitisation:	no (cold product)

12. Ecological information

The product has not tested.

Toxicity:	no data available
Mobility:	The product is not mobile in soil or water.
Persistence and degradability:	The product is not biologically degradable.
Bioaccumulative potential:	The appreciated bioaccumulative potential is very low.
Other adverse effects:	not known

13. Disposal considerations

Substance / mixture / residual amounts:

The product can be recycled. The product is not classified as dangerous, so it can be damped like a solid urban waste. Dispose of in compliance with all local and national regulations. Contact local authority.

European waste catalogue (EWC):

Waste code: 17 03 02 (Mixtures of bitumen without 17 03 01)

The waste code is a recommendation for the estimated use of the waste. Other waste codes are possible. Please contact waste disposal contractor.

Contaminated packing material:

Empty container completely. Uncontaminated packaging can be recycled. Pay attention of the local and national official regulations.

The solid product is not classified as a dangerous good under transport regulations.

14. Transport information

Transport by road / by rail (ADR/RID)	-
UN proper shipping name:	-
UN- number:	-
Transport hazard class(es):	-
Hazard label:	-
Packaging group:	-
Classification number of hazard:	-
Classification code:	-
Environmental hazards:	-
Tunnel restriction code:	-
Remarks:	-

Transport by sea (IMDG- code):	-
UN proper shipping name:	-
UN- number:	-
Transport hazard class(es):	-
Packaging group:	-
EMS:	-
Marine pollutant:	-
Environmental hazards:	-

Transport by air (IATA-DGR): -
 UN proper shipping name: -
 UN- number: -
 Transport hazard class(es): -
 Packaging group: -
 Environmental hazards: -

Special precautions for user

Persons employed in transporting dangerous goods must be trained.
 All persons involved in transporting must observe safety regulations.
 Precautions must be taken to prevent damage.

15. Regulatory informations

Labelling according EC-regulations: no, see section 2
Classification number and hazard of the product: na
Dominant hazardous component for labelling: na
R-phrases: --
S-phrases: --
Specifically labelling : --
Approval and/or restriction of use: --

National Regulations (Germany):

Water pollution class: nwp (not water pollutant)
 Acc. VwVwS (D), Annex 4
Statutory order on hazardous incidents: --
Regulation 1999/13/EG (VOC-RL): 0% VOC

Remarks for restricted employment (Germany):

For adolescent persons acc. § 22 *Jugendarbeitsschutzgesetz (JarbSchG)* and expectant or breastfeed mothers acc. §§ 4 and 5 *Verordnung zum Schutz der Mütter am Arbeitsplatz (MuSchArbV)* attention should be paid to:
 If it is insufficient to maintain the concentration in section 8 under the WEL (workplace exposure limit) values, it is strictly forbidden to busy adolescent persons and expectant and breastfeed mothers with the warmed-up product.

16. Other informations

R- phrases in Section 2 and 3: none
From supplier recommended restricted application: --
Revised sections: --

Statement made by:

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