

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 10 Feb 2023

Print date: 21 Jun 2023

Version: 1.6



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BORNIT - Crack Flex

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

1.1. Product identifier

Trade name/designation:

BORNIT - Crack Flex

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

Use of the substance/mixture:

Polymer-bitumen repair compound for flexible closure of cracks in asphalt surfaces. All uses that are not stated are advised against

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

BORNIT-Werk Aschenborn GmbH

Produktionsleitung / Labor

Reichenbacher Straße 117

08056 Zwickau

GERMANY

Telephone: 0375 2795 0

Telefax: 0375 2795 150

E-mail: info@bornit.de

Website: www.bornit.de

E-mail (competent person): sicherheitsdatenblatt@bornit.de

1.4. Emergency telephone number

Labor: +49-375-2795-0 (Mo-Do. 07:00 Uhr-15:30 Uhr, Fr. 07:00 Uhr- 13:00 Uhr) (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

According to EC directives or the corresponding national regulations the product does not have to be labelled.

Hazard statements: none

Supplemental hazard information

EUH208

Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

Precautionary statements: none

* 2.3. Other hazards

Other adverse effects:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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SECTION 3: Composition/information on ingredients

* 3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 8052-42-4 EC No.: 232-490-9 REACH No.: 01-2119480172-44-XXXX	Asphalt The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	18 - < 30.51 weight-%
CAS No.: 2634-33-5 EC No.: 220-120-9 Index No.: 613-088-00-6 REACH No.: 01-2120761540-60-XXXX	1,2-benzisothiazol-3(2H)-one Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Eye Dam. 1 (H318), Skin Irrit. 2 (H315), Skin Sens. 1 (H317) Danger Specific concentration limit (SCL) Skin Sens. 1; H317: C ≥ 0.05%	0 - < 0.02 weight-%

Full text of H- and EUH-phrases: 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). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

No special measures are necessary.

In case of skin contact:

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

After eye contact:

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.

Following ingestion:

Rinse mouth. Get medical advice/attention if you feel unwell.

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

No known symptoms to date.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Extinguishing powder, Carbon dioxide (CO₂), Foam

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

Burning produces heavy smoke.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

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

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety. Use personal protection equipment.

Protective equipment:

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

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

* 6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up:

Dilute with plenty of water. Retain contaminated washing water and dispose it.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information

Collect spillage.

SECTION 7: Handling and storage

* 7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8).

Fire prevent measures:

No special fire protection measures are necessary.

Environmental precautions:

Do not allow to enter into surface water or drains.

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. storage temperature: 5-35°C

Storage class (TRGS 510, Germany): 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)

Industrial sector specific solutions:

Bituminous emulsions

GISCODE:

BBP10

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

No data available

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
Asphalt CAS No.: 8052-42-4 EC No.: 232-490-9	2.88 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
Asphalt CAS No.: 8052-42-4 EC No.: 232-490-9	0.61 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects

* 8.2. Exposure controls

8.2.1. Appropriate engineering controls

No special technical protective measures are necessary.

8.2.2. Personal protection equipment



Eye/face protection:

Eye glasses with side protection EN 166

Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: NBR (Nitrile rubber) Breakthrough times and swelling properties of the material must be taken into consideration. In the case of wanting to use the gloves again, clean them before taking off and air them well. Replace when worn.

Respiratory protection:

Usually no personal respirative protection necessary.

Other protection measures:

Only wear fitting, comfortable and clean protective clothing.

8.2.3. Environmental exposure controls

Do not allow to enter into surface water or drains.

8.3. Additional information

Further information: see technical data sheet.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: black

Odour: odourless

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	11 - 11.5	20 °C	
Melting point	<i>not determined</i>		
Freezing point	≈ 0 °C		
Initial boiling point and boiling range	≈ 100 °C		
Decomposition temperature	<i>not determined</i>		

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Parameter	Value	at °C	① Method ② Remark
Flash point	<i>not determined</i>		
Evaporation rate	<i>not determined</i>		
Auto-ignition temperature	<i>not determined</i>		
Upper/lower flammability or explosive limits	<i>not determined</i>		
Vapour pressure	<i>not determined</i>		
Vapour density	<i>not determined</i>		
Density	≈ 1.2 g/cm ³	20 °C	
Relative density	<i>not determined</i>		
Bulk density	<i>not determined</i>		
Water solubility	miscible		
Partition coefficient: n-octanol/water	<i>not determined</i>		
Dynamic viscosity	<i>not determined</i>		
Kinematic viscosity	<i>not determined</i>	40 °C	
Volatile organic compounds (VOC) content in percent by weight:	0 %		

* 9.2. Other information

No hazardous reaction when handled and stored according to provisions.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product itself is not combustible, it is however slightly oxidising (active oxygen content approx. 2%).

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

* 10.4. Conditions to avoid

Further information on proper storage: see section 7.

* 10.5. Incompatible materials

Further information on proper storage: see section 7.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

* 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Asphalt CAS No.: 8052-42-4 EC No.: 232-490-9
LD₅₀ oral: >5,000 mg/kg (Rat) Gestis
LD₅₀ dermal: >2,000 mg/kg (Rabbit) Gestis
1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9
LD₅₀ oral: 500 mg/kg
LD₅₀ dermal: >2,000 mg/kg (Rat)

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

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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:

Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

Germ cell mutagenicity:

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

Carcinogenicity:

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:

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.

* 11.2. Information on other hazards

Other information:

No hazardous reaction when handled and stored according to provisions.

SECTION 12: Ecological information

* 12.1. Toxicity

1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9

LC₅₀: 2.15 mg/L 4 d (fish, *Oncorhynchus mykiss* (previous name: *Salmo gairdneri*)) OECD Guideline 203 (Fish, Acute Toxicity Test)

EC₅₀: 0.07 mg/L 3 d (Algae/water plant, *Raphidocelis subcapitata* (previous names: *Pseudokirchneriella subcapitata*, *Selenastrum capricornutum*)) OECD Guideline 201 (Alga, Growth Inhibition Test)

EC₅₀: 2.9 mg/L 2 d (crustaceans, *Daphnia magna*) OECD Guideline 202 (*Daphnia* sp. Acute Immobilisation Test)

NOEC: 0.0403 mg/L 3 d (Algae/water plant, *Raphidocelis subcapitata* (previous names: *Pseudokirchneriella subcapitata*, *Selenastrum capricornutum*)) OECD Guideline 201 (Alga, Growth Inhibition Test)

Additional ecotoxicological information:

There are no data available on the mixture itself.

* 12.2. Persistence and degradability

1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9

Biodegradation: Yes, rapidly

Additional information:

There are no data available on the mixture itself.

* 12.3. Bioaccumulative potential

1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9

Log K_{ow}: 117

Bioconcentration factor (BCF): 6.95

Bioconcentration factor (BCF):

There are no data available on the mixture itself.

* 12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

Asphalt CAS No.: 8052-42-4 EC No.: 232-490-9

Results of PBT and vPvB assessment: —

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1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9

Results of PBT and vPvB assessment: —

* 12.6. Endocrine disrupting properties

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

* 12.7. Other adverse effects

There are no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

Waste code packaging

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

* 14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk according to MARPOL 73/78 Annex II and the IBC code

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SECTION 15: Regulatory information

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

15.1.1. EU legislation

Other regulations (EU):

1. Regulation (EC) No. 1907/2006 of the European Parliament and Council from 18 December 2006 on the registration, evaluation, authorisation and restriction of chemicals (REACH), on the the establishing of a European chemicals agency, on the amending of Regulation (EC) 1999/45 and on the repeal of Regulation (EC) No. 793/93 of the Council, Regulation (EC) No. 1488/94 of the Commission, Regulation (EC) No. 76/769 of the Council and Regulations (EC) Nos. 91/155/EWG, 93/67, 93/105 and 2000/21 of the Commission, in their latest versions.
2. Regulation (EC) No. 1272/2008 of the European Parliament and Council from 16 December 2008 on the classification, labelling and packaging of substances and mixtures, amending and appealing of Regulations (EC) Nos. 67/548 and 1999/45 and in order to amend Regulation (EC) No. 1907/2006 (Official Gazette of the European Union L No. 353 from 31 December in the amended version).
3. Regulation (EC) No. 2015/830 of the Commission from 28 May 2015 on the amendment of Regulation (EC) No. 1907/2006 of the European Parliament and the Council on the registration, evaluation, authorisation and restriction of chemicals (REACH) in the amended version.
4. Regulation (EU) No. 2016/425 of the European Parliament and the Council from 9 March 2016 on personal protective equipment and the repeal of Regulation (EC) 89/686 of the Council (Official Gazette of the EU L 81 from 31 March 2016, p. 51).

15.1.2. National regulations

No data available

* 15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out - it is not necessary for the mixture.

SECTION 16: Other information

* 16.1. Indication of changes

1.2.	Relevant identified uses of the substance or mixture and uses advised against
2.3.	Other hazards
3.2.	Mixtures
6.3.	Methods and material for containment and cleaning up
7.1.	Precautions for safe handling
8.2.	Exposure controls
9.2.	Other information
10.4.	Conditions to avoid
10.5.	Incompatible materials
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
11.2.	Information on other hazards
12.1.	Toxicity
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12.3.	Bioaccumulative potential
12.4.	Mobility in soil
12.6.	Endocrine disrupting properties
12.7.	Other adverse effects
14.7.	Maritime transport in bulk according to IMO instruments
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
15.2.	Chemical Safety Assessment
16.1.	Indication of changes
16.2.	Abbreviations and acronyms
16.3.	Key literature references and sources for data
16.6.	Training advice

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* 16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
LC ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	Lethal (fatal) Dose 50%
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SCL	Specific concentration limit
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
VOC	Volatile organic compounds

* 16.3. Key literature references and sources for data

Classification according to Regulation (EC) No 1272/2008 [CLP]

Substance name	Type	source of supply
1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9	LC ₅₀ ; EC ₅₀ ; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.

* 16.6. Training advice

Observe technical data sheet.

16.7. Additional information

The information in this safety data sheet corresponds to the best of our knowledge at the time of printing. The information should give you indications for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal. The details are not transferable to other

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products. Insofar as the product is mixed with other materials, mixed or processed, or subjected to processing, the information in this safety data sheet, unless expressly stated otherwise, can not be transferred to the new material produced in this way. Follow instructions for use on the label.

* Data changed compared with the previous version.