Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.®

SAFETY DATA SHEET

Based on Directive 2001/58/EC of the Commission of the European Communities

WATER-BLOCK S-20

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

1.1 Identification of the substance or preparation:

Synonyms: none
CAS No. : N.A.
EC index No. : N.A.
EINECS No. : N.A.
RTECS No. : N.A.
NFPA code : N.D.
Molecular weight : N.A.
Formula : N.A.

1.2 Use of the substance or the preparation:
Construction: sealing compound

1.3 Company/undertaking identification:
Firestone Building Products
Ikaroslaan 75
B-1930 Zaventem
Tel. : +32 2 711 44 50
Fax : +32 2 721 27 18
Email: info@fbpe.be

1.4 Telephone number for emergency:
+32 70 245 245
Poison Centre
p/a Militair Hospitaal Koningin Astrid, Bruynstraat, B-1120 Brussel

2. Composition/information on ingredients

Hazardous ingredients	CAS No. EINECS/ELINCS No.	Conc. in %	Hazard symbol	Risks (R-phrases)
heptane	142-82-5 205-563-8	14	F;Xn;N	11-38-50/53-65-67 (1)
limestone	1317-65-3 215-279-6	>3	-	- (1)
kaolin	1332-58-7 310-127-6	>3	-	- (1)

(1) For R-phrases in full: see heading 16

3. Hazards identification

- Highly flammable
- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

4. First aid measures

4.1 Eye contact:
- Consult a doctor/medical service if irritation persists
- Rinse immediately with water

4.2 Skin contact:
- Consult a doctor/medical service if irritation persists
- Clean with alcohol
- Wash with water and soap

4.3 After inhalation:
- Consult a doctor/medical service if breathing problems develop
- Remove the victim into fresh air
- Unconscious: maintain adequate airway and respiration

4.4 After ingestion:
- Consult a doctor/medical service if you feel unwell
- Immediately give lots of water to drink
- Never give water to an unconscious person
- Do not induce vomiting

5. Fire-fighting measures

5.1 Suitable extinguishing media:
- Water spray
- Polyvalent foam
- BC powder
- Carbon dioxide

5.2 Unsuitable extinguishing media:
- Solid water jet ineffective as extinguishing medium

5.3 Special exposure hazards:
- Gas/vapour spreads at floor level: ignition hazard
- Gas/vapour flammable with air within explosion limits
- Upon combustion CO and CO2 are formed

5.4 Instructions:
- If exposed to fire cool the closed containers by spraying with water
- Take account of environmentally hazardous firefighting water
- Use firefighting water moderately and contain it

5.5 Special protective equipment for firefighters:
- Protective clothing for exposure to chemicals

6. Accidental release measures

6.1 Personal protection/precautions:
See heading 8.2/8.3/13

6.2 Environmental precautions:
- Prevent soil and water pollution
- Prevent spreading in sewers
- Contain leaking substance
- Dam up the solid spill
- Try to reduce evaporation

6.3 Methods for cleaning up:
- Scoop solid spill into closing containers
- Carefully collect the spill/leftovers
- Clean contaminated surfaces with an excess of water
- Wash clothing and equipment after handling

7. Handling and storage

7.1 Handling:
- Insufficient ventilation:
- Avoid prolonged and repeated contact with skin
- Use spark-/explosionproof appliances and lighting system
- Take precautions against electrostatic charges
- Do not discharge the waste into the drain

7.2 Storage:
- Keep container tightly closed
- Store at room temperature
- Keep out of direct sunlight
- Store in a dry area
- Keep away from: heat sources, ignition sources, acids, bases, oxidizing agents

Storage temperature	: 15/25	**°C**
Quantity limits	: N.D.	**kg**
Storage life	: 365	**days**

Materials for packaging :

- suitable : no data available

- to avoid : no data available

7.3 Specific uses:

- See information supplied by the manufacturer

8. Exposure controls/Personal protection

8.1 Exposure limit values:

heptane

TLV-TWA	:	**mg/m³**	400	**ppm**
TLV-STEL	:	**mg/m³**	500	**ppm**
OES-LTEL	: -	**mg/m³**	500	**ppm**
OES-STEL	: -	**mg/m³**	-	**ppm**
MAK	: 2100	**mg/m³**	500	**ppm**
MAC-TGG 8 h	: 1200	**mg/m³**		
MAC-TGG 15 min.	: 1600	**mg/m³**		
VME-8 h	: 2045	**mg/m³**	500	**ppm**
VLE-15 min.	: -	**mg/m³**	-	**ppm**
GWBB-8 h	: 1664	**mg/m³**	400	**ppm**
GWK-15 min.	: 2085	**mg/m³**	500	**ppm**
Momentary value	:	**mg/m³**		**ppm**
EC	: 2085	**mg/m³**	500	**ppm**
EC-STEL	: -	**mg/m³**	-	**ppm**

limestone

TLV-TWA	: (10)	**mg/m³**		**ppm**
TLV-STEL	: -	**mg/m³**		**ppm**
OES-LTEL	: 4 R/10 I	**mg/m³**	-	**ppm**
OES-STEL	: -	**mg/m³**	-	**ppm**
MAK	:	**mg/m³**		**ppm**
MAC-TGG 8 h	:	**mg/m³**		
MAC-TGG 15 min.	:	**mg/m³**		
VME-8 h	: 10	**mg/m³**	-	**ppm**
VLE-15 min.	: -	**mg/m³**	-	**ppm**
GWBB-8 h	: 10	**mg/m³**	-	**ppm**
GWK-15 min.	: -	**mg/m³**	-	**ppm**
Momentary value	:	**mg/m³**		**ppm**
EC	:	**mg/m³**		**ppm**
EC-STEL	:	**mg/m³**		**ppm**

kaolin

TLV-TWA	: 2 R	**mg/m³**		**ppm**
TLV-STEL	: -	**mg/m³**		**ppm**
OES-LTEL	: 2 R	**mg/m³**	-	**ppm**
OES-STEL	: -	**mg/m³**	-	**ppm**
MAK	:	**mg/m³**		**ppm**
MAC-TGG 8 h	: 10	**mg/m³**		
MAC-TGG 15 min.	:	**mg/m³**		
VME-8 h	: 10	**mg/m³**	-	**ppm**
VLE-15 min.	: -	**mg/m³**	-	**ppm**
GWBB-8 h	: 2 R	**mg/m³**	-	**ppm**
GWK-15 min.	: -	**mg/m³**	-	**ppm**
Momentary value	:	**mg/m³**		**ppm**
EC	:	**mg/m³**		**ppm**
EC-STEL	:	**mg/m³**		**ppm**

Sampling methods:

- n-Heptane (Hydrocarbons, BP 26 to 126 C)	NIOSH 1500
- n-Heptane	OSHA 7

8.2 Exposure controls:

8.2.1 Occupational exposure controls:
- Measure the concentration in the air regularly
- Work under local exhaust/ventilation

8.2.2 Environmental exposure controls: see heading 13

8.3 Personal protection:

8.3.1 respiratory protection:
- Gas mask with filter type A
- Insufficient ventilation: wear respiratory protection

8.3.2 hand protection:
- Gloves
  Suitable materials: Neoprene, Nitrile rubber, PVA
- Breakthrough time: N.D.

8.3.3 eye protection:
- Protective goggles

8.3.4 skin protection:
- Protective clothing
  Suitable materials: Neoprene, Nitrile rubber, PVA

9. Physical and chemical properties

9.1 General information:

Appearance (at 20°C)	: Paste	
Odour	: Mild	
Colour	: Grey	

9.2 Important health, safety and environmental information:

pH value	: N.D.	
Boiling point/boiling range	: 93	**°C**
Flashpoint	: -10	**°C**
Explosion limits	: 1.0/7.0	**vol%** (**°C**)
Vapour pressure (at 20°C)	: 59	**hPa**
Vapour pressure (at 50°C)	: N.D.	**hPa**
Relative density (at 20°C)	: 1.3	
Water solubility	: Insoluble	
Soluble in	: N.D.	
Relative vapour density	: 3.4	
Viscosity (at 26°C)	: 1600	**Pa.s**
Partition coefficient n-octanol/water	: N.D.	
Evaporation rate		
ratio to butyl acetate	: N.D.	
ratio to ether	: N.D.	

9.3 Other information:

Melting point/melting range	: N.D.	**°C**
Auto-ignition point	: N.D.	**°C**
Saturation concentration	: N.D.	**g/m³**

10. Stability and reactivity

10.1 Conditions to avoid/reactivity:
- Stable under normal conditions

10.2 Materials to avoid:
- Keep away from: heat sources, ignition sources, acids, bases, oxidizing agents

10.3 Hazardous decomposition products:
- Upon combustion CO and CO2 are formed

11. Toxicological information

11.1 Acute toxicity:

LD50 oral rat	: N.D.	**mg/kg**
LD50 dermal rat	: N.D.	**mg/kg**
LD50 dermal rabbit	: N.D.	**mg/kg**
LC50 inhalation rat	: N.D.	**mg/l/4 h**
LC50 inhalation rat	: N.D.	**ppm/4 h**

11.2 Chronic toxicity:

EC carc. cat.	:	not listed
EC muta. cat.	:	not listed
EC repr. cat.	:	not listed
Carcinogenicity (TLV)	:	A4 (kaolin)
Carcinogenicity (MAC)	:	not listed
Carcinogenicity (VME)	:	not listed
Carcinogenicity (GWBB)	:	not listed
Carcinogenicity (MAK)	:	not listed
Mutagenicity (MAK)	:	not listed
Teratogenicity (MAK)	:	- (heptane)
IARC classification	:	not listed

11.3 Routes of exposure: ingestion, inhalation, eyes and skin

11.4 Acute effects/symptoms:

- **AFTER INHALATION**
- EXPOSURE TO HIGH CONCENTRATIONS:
- CNS depression
- Dizziness
- Headache
- Nausea
- Narcosis
- Disturbances of consciousness

- **AFTER SKIN CONTACT**
- Slight irritation
- ON CONTINUOUS EXPOSURE/CONTACT:
- Dry skin
- Cracking of the skin

- **AFTER EYE CONTACT**
- Slight irritation

11.5 Chronic effects:

- Not listed in carcinogenicity class (IARC,EC,TLV,MAK)
- Not listed in mutagenicity class (EC,MAK)
- Not classified as toxic to reproduction (EC)

- ON CONTINUOUS/REPEATED EXPOSURE/CONTACT:
- Enlargement/affection of the liver
- Affection of the renal tissue
- Impairment of the nervous system

12. Ecological information

12.1 Ecotoxicity:

heptane:
- LC50 (96 h) : 375 mg/l (TILAPIA MOSAMBICA)
- EC50 (48 h) : 0.2 mg/l (CHAETOGAMMARUS MARINUS)
- EC50 (8 h) : 1.5 mg/l (ALGAE)

12.2 Mobility:

- **Volatile organic compounds (VOC):** N.D.%

- Insoluble in water
- Substance sinks in water

For other physicochemical properties see heading 9

12.3 Persistence and degradability:

- **biodegradation BOD_5** : N.D. **% ThOD**

- **water** : - No data available

- **soil** : **T ½:** N.D. **days**

12.4 Bioaccumulative potential:
- **log P_{ow}** : N.D.
- **BCF** : N.D.

12.5 Other adverse effects:

- **WGK** : 2 (Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)
- **Effect on the ozone layer** : Not dangerous for the ozone layer (1999/45/EC)
- **Greenhouse effect** : no data available
- **Effect on waste water purification** : no data available

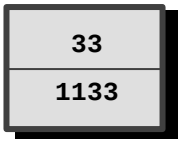
13. Disposal considerations

13.1 Provisions relating to waste:
- Waste material code (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 08 04 09* (waste adhesives and sealants containing organic solvents or other dangerous substances)
- Hazardous waste (91/689/EEC)

13.2 Disposal methods:
- Recycle/reuse
- Allow waste to solidify
- Do not discharge into the sewer
- Do not discharge into surface water

13.3 Packaging/Container:
- Waste material code packaging (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 10* (packaging containing residues of or contaminated by dangerous substances)

14. Transport information



14.1 Classification of the substance in compliance with UN Recommendations

UN number	: 1133
CLASS	: 3
SUB RISKS	: -
PACKING	: III
PROPER SHIPPING NAME	:

UN 1133, Adhesives, Special provision 640H

14.2 ADR (transport by road)

CLASS	: 3
PACKING	: III
CLASSIFICATION CODE	: F1
DANGER LABEL TANKS	: 3
DANGER LABEL PACKAGES	: 3

14.3 RID (transport by rail)

CLASS	: 3
PACKING	: III
CLASSIFICATION CODE	: F1
DANGER LABEL TANKS	: 3
DANGER LABEL PACKAGES	: 3

14.4 ADNR (transport by inland waterways)

CLASS	: 3
PACKING	: III
CLASSIFICATION CODE	: F1
DANGER LABEL TANKS	: 3
DANGER LABEL PACKAGES	: 3

14.5 IMDG (maritime transport)

CLASS	: 3
SUB RISKS	: -
PACKING	: III
MFAG	: -
EMS	: F-E, S-D
MARINE POLLUTANT	: -

14.6 ICAO (air transport)

CLASS	: 3
SUB RISKS	: -
PACKING	: III
PACKING INSTRUCTIONS PASSENGER AIRCRAFT	: 309/Y309
PACKING INSTRUCTIONS CARGO AIRCRAFT	: 310

14.7 Special precautions in connection with transport : Transport in tanks: not applicable Viscous liquid with a flash point lower than 23 C,

14.8 Limited quantities (LQ) :

When substances and their packaging meet the conditions established by ADR/RID/ADNR in chapter 3.4, **only** the following prescriptions shall be complied with:
each package shall display a diamond-shaped figure with the following inscription:
- 'UN 1133'
or, in the case of different goods with different identification numbers within a single package:
- the letters 'LQ'

15. Regulatory information

Classification according to directives 67/548/EEC and 1999/45/EC

Highly flammable

Dangerous for the environment

R11	:	Highly flammable
R51/53	:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S(02)	:	(Keep out of reach of children)
S09	:	Keep container in a well-ventilated place
S16	:	Keep away from sources of ignition - No smoking
S(46)	:	(If swallowed, seek medical advice immediately and show this container or label)
S61	:	Avoid release to the environment. Refer to special instructions/safety data sheets.

16. Other information

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

N.A. = NOT APPLICABLE
N.D. = NOT DETERMINED
(*) = INTERNAL CLASSIFICATION (NFPA)

Exposure limits:

TLV	:	Threshold Limit Value - ACGIH USA
OES	:	Occupational Exposure Standards - United Kingdom
MEL	:	Maximum Exposure Limits - United Kingdom
MAK	:	Maximale Arbeitsplatzkonzentrationen - Germany
TRK	:	Technische Richtkonzentrationen - Germany
MAC	:	Maximale aanvaarde concentratie - The Netherlands
VME	:	Valeurs limites de Moyenne d'Exposition - France
VLE	:	Valeurs limites d'Exposition à court terme - France
GWBB	:	Grenswaarde beroepsmatige blootstelling - Belgium
GWK	:	Grenswaarde kortstondige blootstelling - Belgium
EC	:	Indicative occupational exposure limit values - directive 2000/39/EC

I	:	Inhalable fraction = **T:** Total dust = **E:** Einatembarer Aerosolanteil
R	:	Respirable fraction = **A:** Alveolengängiger Aerosolanteil/Alveolar dust
C	:	Ceiling limit

a:	aerosol		**r:**	rook/Rauch	(fume)
d:	damp	(vapour)	**st:**	stof/Staub	(dust)
du:	dust		**ve:**	vezel	(fibre)
fa:	Faser	(fibre)	**va:**	vapour	
fi:	fibre		**om:**	oil mist	
fu:	fume		**on:**	olienevel/Ölnebel	(oil mist)
p:	poussière	(dust)	**part:**	particles	

Chronic toxicity:

K	:	List of the carcinogenic substances and processes - The Netherlands

Full text of any R-phrases referred to under heading 2:

R11	:	Highly flammable
R38	:	Irritating to skin
R50/53	:	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65	:	Harmful: may cause lung damage if swallowed
R67	:	Vapours may cause drowsiness and dizziness