

# Safety Data Sheet

Based upon Regulation (EC) No. 1907/2006, as amended by Regulation (EC) No. 453/2010

**Material Name: Water-Block S-20**  
**MSDS Established date: 2010-11-29**

**FS-031**

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

**1.1 Product Identifier:** Water-Block S-20

**Synonyms:** S20 WATERBLOCK

**CAS No. :** N.A.

**EC index No. :** N.A.

**EINECS No. :** N.A.

**RTECS No. :** N.A.

**NFPA code :** 1-3-0

**Molecular weight :** N.A.

**Formula :** N.A.

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

**1.2.1 Relevant identified uses**

Construction: sealing compound

**1.2.2 Uses advised against**

**1.3 Details of the supplier of the safety data sheet:**

Firestone Building Products

Ikaroslaan 75

B-1930 Zaventem

Tel. : +32 2 711 44 50

Fax : +32 2 721 27 18

Email: [info@fbpe.be](mailto:info@fbpe.be)

**1.4 Emergency Telephone Number:**

+32 70 245 245

Poison Centre

p/a Militair Hospitaal Koningin Astrid, Bruynstraat 1, B-1120 Brussel

## 2. Hazardous Identification

**2.1 Classification of the substance or mixture**

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

**2.2 Label elements :**

**Symbol(s) :**



Highly Flammable



Dangerous for the environment

**Contains :** Heptane

**Hazard Statement(s):**

R11 : Highly Flammable

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

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## Precautionary Statement(s) :

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.

## 2.3 Other Hazards:

### 3. Composition/Information on Ingredients

CAS	EC-No	Component	Classification according to Regulation (EC) No		Pre-Registration No. (REACH)	%
			67/548/EEC (DSD)	1272/2008 (CLP)		
142-82-5	205-563-8	Heptane	F, Xn, N, R11-38-50/53-65-67	-	N.A.	14
1317-65-3	215-279-6	Limestone	-	-	N.A.	>3
1332-58-7	310-127-6	Kaolin	-	-	N.A.	>3

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

### 4. First Aid Measures

#### 4.1 Description of first aid measures

##### Inhalation:

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

##### Skin

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

##### Eyes

- Consult a doctor/medical service if irritation persists
- Rinse immediately with plenty of water

##### 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

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

-

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

-

### 5. Fire-Fighting Measures

See Section 9 for Flammability Properties

#### 5.1 Extinguishing Media

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## **Suitable extinguishing media:**

- Water spray
- Polyvalent Foam
- BC powder
- Carbon dioxide

## **Unsuitable extinguishing media:**

- Solid water jet ineffective as extinguishing medium

## **5.2 Special hazards arising from the substances or mixture**

- Gas/Vapour spreads at floor level: ignition hazard
- Gas/Vapour flammable with air within explosion limits
- Upon combustion CO and CO<sub>2</sub> are formed

## **5.3 Advice for Firefighters**

- 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
- Protective clothing for exposure to chemicals

## **6. Accidental Release Measures**

### **6.1 Personal Precautions, protective equipment and emergency procedures**

#### **Respiratory protection:**

- Gas mask with filter type A

#### **Hand protection:**

- Gloves

**Suitable materials:** Neoprene, Nitrile rubber, PVA  
Breakthrough time: N.D.

#### **Eye protection:**

- Protective goggles

#### **Skin protection:**

- Head/neck protection
- Protective clothing

**Suitable materials:** Neoprene, Nitrile rubber, PVA

### **6.2 Environmental Precautions**

- Prevent soil and water pollution
- Prevent spreading in sewers
- Contain leaking substance
- Dam up the liquid spill
- Try to reduce evaporation

### **6.3 Methods and material for containment and 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

### **6.4 Reference to other sections**

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## 7. Handling and Storage

### 7.1 Precautions for safe handling

- Avoid prolonged and repeated contact with skin
- Use spark-/explosion proof appliances and lighting system
- Take precautions against electrostatic charges
- Do not discharge the waste into the drain

### 7.2 Conditions for safe storage, including an incompatibilities

- 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, oxidizing agents, acids, bases

**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 end use(s):

- See information supplied by the manufacturer

## 8. Exposure Controls/Personal Protection

### 8.1 Control parameters:

Exposure limits have been developed for one or more of this product's components

#### Heptane

TLV-TWA		mg/m <sup>3</sup>	400	ppm
TLV-STEL		mg/m <sup>3</sup>	500	ppm
TLV-Ceiling		mg/m <sup>3</sup>		ppm
OES-LTEL		mg/m <sup>3</sup>	500	ppm
OES-STEL		mg/m <sup>3</sup>		ppm
MAK	2100	mg/m <sup>3</sup>	500	ppm
TRK		mg/m <sup>3</sup>		ppm
MAC-TGG 8 h	1200	mg/m <sup>3</sup>		ppm
MAC-TGG 15 min.	1600	mg/m <sup>3</sup>		ppm
MAC-Ceiling		mg/m <sup>3</sup>		ppm
VME-8 h	2045	mg/m <sup>3</sup>	500	ppm
VLE-15 min.		mg/m <sup>3</sup>		ppm
GWBB-8 h	1664	mg/m <sup>3</sup>	400	ppm
GWK-15 min.	2085	mg/m <sup>3</sup>	500	ppm
Momentary value		mg/m <sup>3</sup>		ppm
EC	2085	mg/m <sup>3</sup>	500	ppm
EC-STEL		mg/m <sup>3</sup>		ppm

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## Limestone

TLV-TWA	(10)	mg/m <sup>3</sup>		ppm
TLV-STEL		mg/m <sup>3</sup>		ppm
TLV-Ceiling		mg/m <sup>3</sup>		ppm
OES-LTEL	4R/10 l	mg/m <sup>3</sup>		ppm
OES-STEL		mg/m <sup>3</sup>		ppm
MAK		mg/m <sup>3</sup>		ppm
TRK		mg/m <sup>3</sup>		ppm
MAC-TGG 8 h		mg/m <sup>3</sup>		ppm
MAC-TGG 15 min.		mg/m <sup>3</sup>		ppm
MAC-Ceiling		mg/m <sup>3</sup>		ppm
VME-8 h	10	mg/m <sup>3</sup>		ppm
VLE-15 min.		mg/m <sup>3</sup>		ppm
GWBB-8 h	10	mg/m <sup>3</sup>		ppm
GWK-15 min.		mg/m <sup>3</sup>		ppm
Momentary value		mg/m <sup>3</sup>		ppm
EC		mg/m <sup>3</sup>		ppm
EC-STEL		mg/m <sup>3</sup>		ppm

## Kaolin

TLV-TWA	2R	mg/m <sup>3</sup>		ppm
TLV-STEL		mg/m <sup>3</sup>		ppm
TLV-Ceiling		mg/m <sup>3</sup>		ppm
OES-LTEL	2R	mg/m <sup>3</sup>		ppm
OES-STEL		mg/m <sup>3</sup>		ppm
MAK		mg/m <sup>3</sup>		ppm
TRK		mg/m <sup>3</sup>		ppm
MAC-TGG 8 h	10	mg/m <sup>3</sup>		ppm
MAC-TGG 15 min.		mg/m <sup>3</sup>		ppm
MAC-Ceiling		mg/m <sup>3</sup>		ppm
VME-8 h	10	mg/m <sup>3</sup>		ppm
VLE-15 min.		mg/m <sup>3</sup>		ppm
GWBB-8 h	2R	mg/m <sup>3</sup>		ppm
GWK-15 min.		mg/m <sup>3</sup>		ppm
Momentary value		mg/m <sup>3</sup>		ppm
EC		mg/m <sup>3</sup>		ppm
EC-STEL		mg/m <sup>3</sup>		ppm

## 8.2 Exposure controls

### Ventilation/Engineering Controls

- Measure the concentration in the air regularly
- Work under local exhaust/ventilation

### Personal protective equipment

#### Eyes/Face Protection

- Protective goggles

#### Hand Protection

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- Gloves
- Suitable materials:** Neoprene, Nitrile rubber, PVA

## **Skin Protection**

- Protective clothing
  - Head/neck protection
- Suitable materials:** Neoprene, Nitrile rubber, PVA

## **Respiratory Protection**

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

## **Thermal Hazards**

-

### **8.3 Environmental exposure controls**

- No information available

## **9. Physical and Chemical Properties**

### **9.1 Information on basic physical and chemical properties**

<b>Appearance:</b>	Grey	<b>Physical Form:</b>	Paste
<b>Odour:</b>	Mild	<b>Odour Threshold:</b>	Not available
<b>pH:</b>	N.D.	<b>Melting/Freezing Point:</b>	N.D.
<b>Decomposition Temperature:</b>	Not available	<b>Relative Density:</b>	1.3
<b>Initial Boiling Point:</b>	93°C	<b>Viscosity:</b>	1600 Pa.s
<b>Evaporation Rate:</b>	N.D.	<b>Vapour Pressure:</b>	59 hPa (at 20 °C)
<b>Vapour Density (air = 1):</b>	3.4	<b>Density:</b>	Not available
<b>Oxidizing Properties:</b>	Not available	<b>Bulk Density:</b>	Not available
<b>Water Solubility:</b>	Insoluble	<b>Coeff. Water/Oil Dist:</b>	Not available
<b>Partition Coefficient:</b>	N.D.	<b>Flash Point:</b>	-10 °C
<b>Explosive Properties:</b>	Not available	<b>Upper Explosive Limit:</b>	1.2 vol %
<b>Autoignition Temperature:</b>	N.D.	<b>Lower Explosive Limit:</b>	7.0 vol %

### **9.2 Other information**

## **10. Stability and Reactivity**

### **10.1 Reactivity**

- Stable under normal conditions

### **10.2 Chemical stability**

- Stable under normal conditions

### **10.3 Possibility of hazardous reactions**

-

### **10.4 Conditions to avoid**

- Keep away from: heat sources, ignition sources, oxidizing agents, acids, bases

### **10.5 Incompatible materials**

-

### **10.6 Hazardous decomposition products**

- On combustion CO and CO<sub>2</sub> are formed

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## 11. Toxicological Information

### Acute and Chronic Toxicity

#### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

#### Acute Toxicity

Oral LD50 rat	N.D.	mg/kg
Dermal LD50 rat	N.D.	mg/kg
Dermal LD50 rabbit	N.D.	mg/kg
Inhalation LC50 rat	N.D.	mg/l/4 h
Inhalation LC50 rat	N.D.	ppm/4 h

#### 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) : not listed  
Teratogenicity (MAK) : - (heptanes)  
IARC classification : not listed

#### After Inhalation

##### Exposure to high concentrations:

- Headache
- Nausea
- Dizziness
- CNS depression
- Narcosis
- Disturbances of consciousness

#### After Ingestion

##### Skin Corrosion/Irritation

- Slight irritation

##### On continuous exposure/contact:

- Dry skin
- Cracking of the skin

##### Serious Eye Damage/Irritation

- Slight Irritation

##### Respiratory or Skin Sensitisation:-

##### Germ Cell Mutagenicity:-

##### Carcinogenicity: -

##### Component Carcinogenicity: -

Component Name:-

ACGIH:-

IARC:-

##### Reproductive Toxicity:-

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**Specific Target Organ Toxicity - Single Exposure:-**  
**Specific Target Organ Toxicity - Repeated Exposure:-**  
**Aspiration Hazard:-**  
**Medical Conditions Aggravated by Exposure:-**  
**Other Information**  
**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 Toxicity:

heptane:

LC50 (96 h) : 375 mg/l (Tilapia Mosambica)

EC50 (48 h) : 0.2 mg/l (Daphnia Magna)

EC50 (h) : 1.5 mg/l (Chlorophyta)

### 12.2 Persistence and degradability

- biodegradation BOD<sub>5</sub> : N.D. % ThOD
- water : - No data available
- soil : T ½: N.D. days

### 12.3 Bioaccumulative potential

- log Pow : N.D.
- BCF : N.D.

### 12.4 Mobility in soil

- Volatile organic compounds (VOC): N.D. %
- Insoluble in water
- Substance sinks in water
- For other physicochemical properties see heading 9

### 12.5 Results of PBT and vPvB assessment

-

### 12.6 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 Waste treatment methods

- 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)



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## 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

None

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## 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

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

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

**REACH Candidate List of Substances Subject to Authorisation (Article 59(1)) - Reg. (EU) No. 1907/2006**

No components of this material are listed

**EU - REACH (1907/2006) - Annex XIV List of Substances Subject to Authorisation**

No components of this material are listed

**Germany : WGK : 2** (Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)

### 15.2 Chemical Safety Assessment Information

## 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)

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**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