

**RUBBERGARD® EPDM SERIES**

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

**1.1 Identification of the substance or preparation:**

**Synonyms:** LS-FR; Reinforced fire retardant (FR); Reinforced standard retardant (FR); RubberGard® MAX; RubberGard® MAX FR; Un-reinforced fire retardant (FR); Un-reinforced standard retardant (FR)

**CAS No.** : N.A.  
**EC index No.** : N.A. **NFPA code** : N.D.  
**EINECS No.** : N.A. **Molecular weight** : N.A.  
**RTECS No.** : 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)
None	-	-	-	-

**3. Hazards identification**

- No hazard classification in accordance with directives 67/548/EEC and 1999/45/EC

**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  
- Rinse with water

**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  
- Not applicable

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## 5. Fire-fighting measures

### 5.1 Suitable extinguishing media:

- Polyvalent foam
- ABC powder
- Carbon dioxide
- Sand/earth

### 5.2 Unsuitable extinguishing media:

- No data available

### 5.3 Special exposure hazards:

- Not easily combustible
- On heating: release of carcinogenic products
- On burning: release of toxic and corrosive gases/vapours (nitrous vapours, sulphur oxides, carbon monoxide - carbon dioxide)

### 5.4 Instructions:

- Dilute toxic gases with water spray

### 5.5 Special protective equipment for firefighters:

- Heat/fire exposure: compressed air/oxygen apparatus
- 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:

- Contain leaking substance

### 6.3 Methods for cleaning up:

- 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:

- Observe normal hygiene standards

### 7.2 Storage:

- Store in a dry area
- Keep container in a well-ventilated place
- Meet the legal requirements.
- Keep away from: heat sources

Storage temperature	: N.D.	°C
Quantity limits	: N.D.	kg
Storage life	: N.D.	days
Materials for packaging	:	
- suitable	: polyethylene	

- 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:

TLV-TWA	: not listed
TLV-STEL	: not listed
TLV-Ceiling	: not listed
OES-LTEL	: not listed
OES-STEL	: not listed
MEL-LTEL	: not listed
MEL-STEL	: not listed
MAK	: not listed
TRK	: not listed
MAC-TGG 8 h	: not listed
MAC-TGG 15 min.	: not listed
MAC-Ceiling	: not listed
VME-8 h	: not listed
VLE-15 min.	: not listed
GWBB-8 h	: not listed
GWK-15 min.	: not listed
Momentary value	: not listed
EC	: not listed
EC-STEL	: not listed

### Sampling methods:

- No data available

### 8.2 Exposure controls:

#### 8.2.1 Occupational exposure controls:

- Work under local exhaust/ventilation

#### 8.2.2 Environmental exposure controls: see heading 13

### 8.3 Personal protection:

#### 8.3.1 respiratory protection:

- Respiratory protection not required in normal conditions

#### 8.3.2 hand protection:

- Gloves  
Suitable materials: No data available
- Breakthrough time: N.D.

#### 8.3.3 eye protection:

- Safety glasses

#### 8.3.4 skin protection:

- Protective clothing  
Suitable materials: No data available

## 9. Physical and chemical properties

### 9.1 General information:

Appearance (at 20°C) : Solid  
Odour : Mild  
Colour : Black

### 9.2 Important health, safety and environmental information:

pH value : N.D.  
Boiling point/boiling range : N.D. °C  
Flashpoint : N.D. °C  
Explosion limits : N.D. vol% ( °C)  
Vapour pressure (at 20°C) : N.D. hPa  
Vapour pressure (at 50°C) : N.D. hPa  
Relative density (at 20°C) : N.D.  
Water solubility : Insoluble  
Soluble in : N.D.  
Relative vapour density : N.D.  
Viscosity : N.D. 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/m<sup>3</sup>

## 10. Stability and reactivity

### 10.1 Conditions to avoid/reactivity:

- Stable under normal conditions

### 10.2 Materials to avoid:

- Keep away from: heat sources

### 10.3 Hazardous decomposition products:

- On heating: release of carcinogenic products
- On burning: release of toxic and corrosive gases/vapours (nitrous vapours, sulphur oxides, carbon monoxide - carbon dioxide)
- Prolonged storage: release of carcinogenic products

## 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)	: not listed
Carcinogenicity (MAC)	: not listed
Carcinogenicity (VME)	: not listed
Carcinogenicity (GWBB)	: not listed
Carcinogenicity (MAK)	: not listed
Mutagenicity (MAK)	: not listed
Teratogenicity (MAK)	: not listed
IARC classification	: not listed

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

### 11.4 Acute effects/symptoms:

- No data available

### 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)

## 12. Ecological information

### 12.1 Ecotoxicity:

- No data available

### 12.2 Mobility:

- Volatile organic compounds (VOC): N.D.%
- Insoluble in water

For other physicochemical properties see heading 9

### 12.3 Persistence and degradability:

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

### 12.4 Bioaccumulative potential:

- log P<sub>ow</sub> : N.D.
- BCF : N.D.

### 12.5 Other adverse effects:

- WGK : N.D.
- 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 (75/442/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03)

### 13.2 Disposal methods:

- Remove to an authorized waste treatment plant

### 13.3 Packaging/Container:

- Waste material code packaging (75/442/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 02 (plastic packaging)

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## 14. Transport information

### 14.1 Classification of the substance in compliance with UN Recommendations

UN number : -  
CLASS : NOT SUBJECT  
SUB RISKS :  
PACKING :  
PROPER SHIPPING NAME :

### 14.2 ADR (transport by road)

CLASS : NOT SUBJECT  
PACKING :  
CLASSIFICATION CODE :  
DANGER LABEL TANKS :  
DANGER LABEL PACKAGES :

### 14.3 RID (transport by rail)

CLASS : NOT SUBJECT  
PACKING :  
CLASSIFICATION CODE :  
DANGER LABEL TANKS :  
DANGER LABEL PACKAGES :

### 14.4 ADNR (transport by inland waterways)

CLASS : NOT SUBJECT  
PACKING :  
CLASSIFICATION CODE :  
DANGER LABEL TANKS :  
DANGER LABEL PACKAGES :

### 14.5 IMDG (maritime transport)

CLASS : NOT SUBJECT  
SUB RISKS :  
PACKING :  
MFAG :  
EMS :  
MARINE POLLUTANT :

### 14.6 ICAO (air transport)

CLASS : NOT SUBJECT  
SUB RISKS :  
PACKING :  
PACKING INSTRUCTIONS PASSENGER AIRCRAFT :  
PACKING INSTRUCTIONS CARGO AIRCRAFT :

### 14.7 Special precautions in connection with transport

: not restricted for any mode of international transport

## 15. Regulatory information

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

NOT APPLICABLE

## 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

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

### Chronic toxicity:

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