

## Safety Data Sheet

### Safety Data Sheet according to (EC) No 1907/2006

Revision Date: **01.04.2019**

**Intumescent construction materials 11731-012**

### Section 1: Identification of the product and the company's undertaking

#### Product Identifier

Kerafix® Flexpan 200

#### Relevant Uses of the Product

Uses of the product are in structural fire protection and expands under high temperature.

#### Details of the supplier of the Safety Data Sheet

Company name: C H Materials Ltd  
Address: 5-6 Lansil Way  
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Caton Road  
Lancaster  
LA1 3QY  
Telephone: 01524 406088  
Email: [info@chmaterials.com](mailto:info@chmaterials.com)  
Website: [www.chmaterials.com](http://www.chmaterials.com)

### Section 2: Hazards

#### Classification of the Product

This product is not classified as hazardous according to Regulation (EC) No 1272/2008.

#### Labelling

This product does not require a hazard warning label in accordance with EC directives.

#### Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances contained in this product are a PBT / vPvB.

### Section 3: Composition and information on ingredients

#### Chemical characterisation

This product is an intumescent flame-retardant system consisting of a source of carbon, a bonding material and special additives.

This product is flame retardant.

Hazardous components: Not applicable

## Section 4: First Aid Measures

### Description of first aid measures

This product has no hazards that require special first aid measures.

When used as intended, exposure through inhalation is not to be expected. In case of inhaling dust (possibly caused by abrasion) the affected person should be moved into fresh air. In case of sickness seek medical advice.

After contact with skin, remove and wash contaminated clothes before re-use. Wash off immediately with soap and plenty of water. Consult a doctor if skin irritation persists.

After contact with eyes, remove contact lenses, rinse eyes and under the eyelids thoroughly with water and consult a doctor immediately.

After ingestion, rinse out the mouth and drink plenty of water. Do not induce vomiting. Consult a doctor immediately.

### Symptoms and effects

See Section 11

### Immediate medical attention and special treatment required

No data available

## Section 5: Firefighting Measures

### Extinguishing

This product itself does not burn. Use fire extinguishing methods in accordance to the surroundings.

There are no special hazards associated with this product.

Firefighters are advised to wear protective equipment in accordance with the conditions.

## Section 6: Accident Precautions

Suitable eye protection, gloves and protective clothing should be worn.

Dispose of this product in closed containers. Do not discharge into drains, surface water or ground water.

When cleaning up, dispose the product into a suitable container, avoiding the disperse of dust.

See Section 8 for information on personal protective equipment.

## Section 7: Handling and Storage

### Safe handling

Ensure there is adequate ventilation especially in confined areas and avoid the formation of dust.

There are no specific fire preventions necessary but note the general rules of internal fire prevention.

Take the usual precautions when handling chemicals. Wash hands before breaks and at the end of the working day. Keep away from food, drink, and animal feed. Remove and wash contaminated clothes before re-use.

### **Safe storage**

Protect against physical damage of the product.

Protect against heat, direct sunlight and freezing. Keep tightly closed in a cool and dry place.

### **End Use**

This product is for structural fire protection and expands under high temperature.

## **Section 8: Exposure controls and personal protection**

### **Exposure**

Technical and organisational measures must be applied.

Ensure there is adequate ventilation especially in confined areas and avoid the formation of dust.

### **Personal protection**

Take the usual precautions when handling chemicals. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes, and clothing. Remove and wash contaminated clothes before re-use.

### **Eye and face protection**

Tightly fitting goggles (EN166)

Eye wash bottle with pure water (EN15154)

### **Hand protection**

Protective gloves (EN374)

Safety gloves (EN420 cat 1 or 2)

Suitable material for extended and direct contact (EN374) (protection index 6, corresponding to a permeation rate >480 minutes) Nitrile rubber or nitrile latex – NBR (0.35mm)

Requirements can vary as a function of use; therefore, it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

### **Skin protection**

Wear closed and long working clothes

### **Respiratory protection**

Breathing protection is not necessary in the case of correct usage under normal conditions.

## **Section 9: Physical and chemical properties**

### **Basic physical and chemical properties**

Physical state:

Solid material

Colour:

According to product specification

Odour:

Faint, characteristic

pH Value:

Not applicable

### Changes to the physical state

Melting point:	Not determined
Initial boiling point and boiling rate:	Not determined
Sublimation point:	Not applicable
Flash Point:	Not applicable
Sustaining combustion:	Not sustaining combustion

### Flammability

Solid:	Not applicable
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### Explosive Properties

The product is not explosive

Lower explosion limits:	Not determined
Upper explosion limits:	Not determined
Ignition temperature:	Not applicable

### Auto ignition temperature

Solid:	Not applicable
Decomposition temperature:	Not determined

### Oxidising properties

The product is not self-igniting

Vapour pressure:	Not applicable
Density (at 20°C):	Not determined
Water solubility (at 20°C):	Immiscible
Solubility in other solvents:	Not determined
Partition coefficient:	Not applicable
Viscosity / dynamic (at 20°C):	Not determined
Viscosity / kinematic:	Not determined

## Section 10: Stability and reactivity

At the temperature of  $\geq 140^{\circ}\text{C}$  (depending on construction material) there starts a physico-chemical reaction which expands the volume.

The product is stable under normal conditions.

There are no hazardous reactions known.

Avoid contact with heat.

This material is incompatible with strong oxidising agents, strong acids, and strong bases.

Hazardous decomposition products are ammonia, aldehydes, alcohols, organic acid, carbon dioxide (CO<sub>2</sub>), Carbon monoxide (CO), sulphur oxide and nitrous oxides (NO<sub>x</sub>)

## Section 11: Toxicology

### Toxicokinetic, metabolism and distribution

No toxicological data available

### **Acute toxicity**

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

### **Irritation and corrosivity**

Based on available data, the classification criteria were not met.  
Repeated or prolonged exposure may cause irritation to the skin and eyes.

### **Sensitising effects**

Based on available data, the classification criteria were not met.  
No sensitising effects known

### **Carcinogenic, mutagenic, and toxic effects for reproduction**

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

### **STOT – single exposure**

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

### **STOT – repeated exposure**

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

### **Aspiration hazard**

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

### **Further information**

If handled appropriately and in accordance with the general hygienic rules, no damage to health have become known.

## **Section 12: Ecology**

### **Toxicity**

No data available

### **Biodegradability**

Not readily degradable

### **Bio accumulative potential**

The product has not been tested because of the products consistency and low solubility in water, bioavailability is not likely

### **Mobility in soil**

No data available

### Results of PBT and vPvB assessment

According to regulation (EC) No 1907/2006 (REACH) none of the substances contained in this product are a PBT substance

### Section 13: Disposal considerations

#### Disposal

Dispose of this product in accordance with local regulations.

170904 CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES); other construction and demolition wastes; mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03.

150102 WASTE PACKAGING, ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED: packaging (including separately collected municipal packaging waste); plastic packaging.

Empty containers should be taken for local recycling, recovery, or waste disposal.

#### Land transport (ADR/RID); Marine transport (IMDG); Air transport (IATA)(ICAO); Inland waterways transport (ADN)

##### UN number

No dangerous goods as defined by the transport regulations.

##### UN proper shipping name

No dangerous goods as defined by the transport regulations.

##### Transport hazard class(es)

No dangerous goods as defined by the transport regulations.

##### Packing group

No dangerous goods as defined by the transport regulations.

##### Environmental hazards

Not environmentally hazardous

##### Special precautions for user

No dangerous goods as defined by the transport regulations.

##### Transport in bulk according to Annex II of MARPOL and the IBC code

No dangerous goods as defined by the transport regulations.

## Section 15: Regulatory information

### EU regulatory information

2004/42/EC (VOC): 0%

Not subject to 2012/18/EC (Seveso III)

This product is not classified as dangerous in accordance with Regulation (EC) No 1272/2008 GHS

### National regulatory information

Water contaminating class (D): 1- slightly water contaminating

Chemical safety assessments for substances in this product were not carried out.

## Section 16: Other information

### Abbreviations and acronyms

ADR	Accord europeen relative au transport international des marchandises Dangereuses par Route
RID	Reglement concernant le transport international ferroviaire de marchandises dangereuses
ADN	Accord europeen relative au transport international des marchandises dangereuses par voie de navigation interieure
IMDG	International Maritime Code for Dangerous Goods
IATA	International Air Transport Association
ICAO	International Civil Aviation Organisation
GHS	Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
MARPOL	International Convention for the Prevention of Pollution from Ships
REACH	Registration, Evaluation, Authorisation, and restriction of Chemicals
EN	European Norm
PBT	Persistent Bio-accumulative and Toxic
vPvB	Very Persistent and Very Bio- accumulative

### Further information

Content of sections 4 to 8 and 10 to 12 do not relate to the application of the product but to the avoidance of accidents and irregularities.

The information is for the safety requirements of the product(s) and is based on the present level of our knowledge.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.