

Safety Data Sheet

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

Revision Date: 08.05.2019

Kerafix® Flexpremium H 11731-037

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

Product Identifier

Kerafix® Flexpremium H

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
Lansil Industrial Estate
Caton Road
Lancaster
LA1 3QY
Telephone: 01524 406088
Email: info@chmaterials.com
Website: 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.

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 Limits

CAS No	Substance	Ppm	Mg/m ³	Fibres/ml	Category	Origin
13463-67-7	Titanium dioxide, respirable	-	4		TWA (8h)	WEL

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 and hygiene measures

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:	Formulated product / pasty intermediate
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
Solubility in other solvents:	Not determined
Partition coefficient:	Not applicable
Viscosity / dynamic (at 20°C):	Not determined
Viscosity / kinematic	Not determined
Solvent content:	0.0%
Oxidising properties:	The product is not self-igniting

Water solubility

Formulated product:	Insoluble
Pasty intermediate:	Miscible

Section 10: Stability and reactivity

At the temperature of ~175°C 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 (CO₂), Carbon monoxide (CO), sulphur oxide and nitrous oxides (NO_x)

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.

Sensitising effects

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

No sensitising effects known

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.

Carcinogenic, mutagenic, and toxic effects for reproduction

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.

The hardened material can be disposed of with household waste or commercial waste. The unused liquid or pasty material must be disposed of as hazardous waste.

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.

Section 14: Transport

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

This product is not subject to 2012/18/EU (SEVESO III)

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

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
MARPOL	International Convention for the Prevention of Pollution from Ships
GHS	Globally harmonised system of classification and labelling of chemicals
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.