



Safety Data Sheet

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

Revision Date: 08.03.2017

Kerafix® Fire Rated Silicone 11731-020

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

Product Identifier

Kerafix® Fire Rated Silicone

Relevant Uses of the Product

The product is a Silicone Sealant for structural fire protection.

Details of the supplier of the Safety Data Sheet

Company name: C H Materials Ltd
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Section 2: Hazards

Classification of the Product

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

Labelling

EUH208 Contains butanone oxime vinylsilane and 3 -(triethoxysilyl)-propylamine. May cause an allergic reaction.

EUH210 Safety data sheet available on request.

This product is labelled in accordance to Regulation (EC) No 1272/2008. (GHS)

Other hazards

Chemical substances are released into the air during the processing and hardening of the material (see Section 11). Ensure there is adequate ventilation.

Results of PBT and vPvB assessment: Not applicable

Section 3: Composition and information on ingredients

Chemical characterisation

The product is a pasty material which contains Polydimethylsiloxane and fillers, additives and an oximo silane cross-linking agent.

Hazardous Components

EC No	Chemical Name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No 1272/2008 [CLP]	
REACH No		
484-460-1	O,O',O''-(methylsilylidyne) trioxime 2-pentanone	<2.5%
37859-55-5		
	Acute Tox 4, Eye irrit 2 STOT RE 2, Aquatic Chronic 3 H302 H319 H373 H412	
218-747-8	Butan-2-one O,O',O''-(vinylsilylidyne) trioxime	<2.5%
2224-33-1	Xi – Irritant R38-41-43	
	Skin Irrit 2, Eye Dam 1, Skin Sens 1, H315 H318 H317	

Full text of H and EUH phrases see Section 16.

Section 4: First Aid Measures

Description of first aid measures

There are no hazards which require special first aid measures.

After inhalation move into fresh air. If necessary, give oxygen. Protect against heat loss and immobility. If symptoms persist consult a doctor.

After contact with skin, 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. If swallowed, seek medical advice, and show the container.

Symptoms and effects

Also, see Section 11.

Immediate medical attention and special treatment required

No data available

Section 5: Firefighting Measures

Extinguishing

Use foam, carbon dioxide (CO₂), dry chemical or water spray to extinguish.

The formation of toxic gases is possible during heating or in the case of fire. Eg Carbon monoxide and traces of incompletely burned hydrocarbons.

Firefighters are advised to wear breathing apparatus.

In case of fire and/or explosion do not breathe fumes.

Section 6: Accident Precautions

Ensure there is adequate ventilation especially in confined areas.

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.

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.

Safe storage

Protect against physical damage of the product.

Do not store with food.

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

Prevent penetration into the ground.

End Use

The product is a Silicone Sealant for structural fire protection.

Section 8: Exposure controls and personal protection

Exposure

Technical and organisational measures must be applied.

Ensure there is adequate ventilation especially in confined areas.

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.

Eye and face protection

Tightly fitting goggles (EN166)

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. In case of insufficient ventilation, wear suitable respiratory equipment (multi-purpose filter ABEK)

Environmental exposure controls

Additional exposure limits when there are possible processing hazards:

CAS-No: 96-29-7, 2 butanone oxime, product of hydrolysis, WPG (workplace guideline recommended by the manufacturer) = 3ppm.

Section 9: Physical and chemical properties

Basic physical and chemical properties

Physical state:

pasty material

Colour:

According to product specification

Odour:	Characteristic
Changes to the physical state	
Melting point:	Not applicable
Initial boiling point and boiling rate:	Not determined
Flash Point:	Not applicable
Lower explosion limits:	Not determined
Upper explosion limits:	Not determined
Density (at 20°C):	1.17 g/cm ³
Water solubility (at 20°C)	Insoluble
Solubility in other solvents:	Not determined
Ignition temperature:	Not applicable
Explosive properties:	The product is not explosive
Decomposition temperature:	Not determined
Viscosity / dynamic (at 20°C)	Not determined
Viscosity / kinematic	Not determined
Oxidising properties:	The product is not self-igniting

Section 10: Stability and reactivity

There are no hazardous reactions known.

There are no decomposition hazards if stored and applied as directed. Protect against heat and direct sunlight.

The product may emit formaldehyde vapours in the presence of air and at temperatures above 150°C.

Section 11: Toxicology

Toxicokinetic, metabolism and distribution

No toxicological data available

Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
37859-55-5	O,O',O''-(methylsilyldiylidene) trioxime 2-pentanone				
	oral	ATE	500 mg/kg		

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.

Not classified as skin sensitiser. (OECD 406)

STOT – single exposure

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

Severe effects after repeated or prolonged 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.

Other observations

During processing and subsequent hardening of the product, 2-pentanoxim (CAS-Nr 623-40-5) is formed, which evaporates. 2-pentanoxim causes serious eye irritation. High concentrations of 2-pentanoxim inhaled for long periods of time (with insufficient ventilation) can lead to irreversible health damage.

During processing and subsequent hardening of the product, 2-butanone oxime (MEKO) is formed, which evaporates. Extended exposure to MEKO can damage the nasal mucosa. High concentrations of MEKO inhaled for long periods of time (with insufficient ventilation) can lead to irreversible health damage. After hardening, the material is odourless and inert.

Further information

The product has not been tested. Assessment in analogy to a product with similar structure and function (SAR).

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

The product is not biodegradable.

Bio accumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

Not applicable

Other adverse effects

Low hazards to water. Do not discharge into drains, surface water or ground water.

Section 13: Disposal considerations

Disposal

Dispose of this product in accordance with local regulations.

The hardened material can be disposed of with household rubbish or commercial waste. Unused material (liquid and pasty) must be disposed of as hazardous waste.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing it may be taken for reuse. Contaminated packaging is to be treated like the product itself.

Section 14: Transport

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

UN number

Not applicable. No hazardous material as defined by the transport regulations.

UN proper shipping name

Not applicable. No hazardous material as defined by the transport regulations.

Transport hazard class(es)

Not applicable. No hazardous material as defined by the transport regulations.

Packing group

Not applicable. No hazardous material as defined by the transport regulations.

Environmental hazards

Not applicable. No hazardous material as defined by the transport regulations.

Special precautions for user

Not applicable. No hazardous material as defined by the transport regulations.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Not applicable. No hazardous material as defined by the transport regulations.

Section 15: Regulatory information

EU regulatory information

This product is labelled 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
CAS	Chemical Abstract Service
EN	European Norm
PBT	Persistent Bio-accumulative and Toxic
vPvB	Very Persistent and Very Bio- accumulative

Relevant H and EUH Statements (number and text)

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects
EUH208	Contains butanone oxime vinylsilane and 3 -(triethoxysilyl)-propylamine. May cause an allergic reaction.
EUH210	Safety data sheet available on request.

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.