



Safety Data Sheet

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

Revision Date: 08.03.2017

Kerafix® 2000 11731-010

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

Product Identifier

Kerafix® 2000

Relevant Uses of the Product

Uses of the product are as a heat insulation, a heat shield, a heat collector and seals and expansion joints in industrial furnaces. The product is a fire resistant material for furnaces, boilers and other process equipment. The product can also be used in aerospace equipment, automotive and household appliance industries as well as fire protection systems or fire wall protection.

Note: This product is an "article" and is not a material that is required to issue Safety Data Sheets (SDS) by regulations concerning chemical substances. This SDS voluntarily offers helpful information for your safe handling and environmental care.

Details of the supplier of the Safety Data Sheet

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Section 2: Hazards

Classification of the Product

This product is not classified as hazardous according to Directive 1999/45/EC.
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

Do not rub eyes. This product contains inorganic fillers which irritate the eyes.

Section 3: Composition and information on ingredients

Chemical characterisation

Uses of the product are as a heat insulation, a heat shield, a heat collector and seals and expansion joints in industrial furnaces. The product is a fire resistant material for furnaces, boilers and other process equipment. The product can also be used in aerospace equipment, automotive and household appliance industries as well as fire protection systems or fire wall protection.

The product contains Acrylic-latex bound AES-wool (Calcium-Magnesium-Silicate (alkaline-earth silicate fibre) CAS-No 436083-99-7, REACH registration number 01-2119457644-32)

None of the ingredients are radioactive according to the EU Directive EURATOM 96/29.

Section 4: First Aid Measures

Description of first aid measures

The first aid measures refer to the contact with dust arising during the processing of the product eg sawing, drilling and grinding.

Do not breathe dust. 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 do not rub eyes. This product contains inorganic fillers which irritate the eyes.

Remove contact lenses and 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

Possible symptoms are the irritation of skin and the eyes.

Also 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.

This product itself does not burn.

Section 6: Accident Precautions

Avoid dust formation. Do not breathe dust. Use breathing apparatus if exposed to dust.

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. Avoid the use of compressed air and sweeping.

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. Do not leave to dry.

Safe storage

Protect against physical damage of the product.

Do not store with acids or with food.

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

End Use

Uses of the product are as a heat insulation, a heat shield, a heat collector and seals and expansion joints in industrial furnaces. The product is a fire resistant material for furnaces, boilers and other process equipment. The product can also be used in aerospace equipment, automotive and household appliance industries as well as fire protection systems or fire wall 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 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 apparatus (particle filter P2) only if dust is formed.

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

| | |
|---|----------------------------------|
| Fibre diameter: | 1.4 – 3 µm |
| Changes to the physical state | |
| Melting point: | > 1200°C |
| 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): | 0.2 – 0.3 g/cm ³ |
| Water solubility (at 20°C) | <0.001 g/L |
| 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

The product has no reactivity.

The product is stable under normal conditions.

Prolonged thermal exposure above 900°C converts the amorphous material into crystalline material.

The oxidation products of the resin binder produced during the first heating (between 180°C and 600°C) will be partly emitted as flue gases to the ambient air. Ensure there is adequate ventilation especially in confined areas. Before application obtain special instructions to avoid exposure.

Section 11: Toxicology

Toxicokinetics, 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.

Breathing dust and fibres may cause temporary irritation to the mouth, nose and throat. Ingestion of dust and fibres may cause temporary irritation to the digestive system. Prolonged contact may irritate skin. Do not rub eyes. This product contains inorganic fillers which irritate the eyes.

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.

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.

Further information

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

Classification in compliance with the assessment procedure specified in the EC guidelines 1999/45/EC.

Section 12: Ecology

Toxicity

The product is chemically inert.

Biodegradability

Not readily degradable

Bioaccumulative potential

No data available

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.

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

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 not classified as dangerous in accordance with Directive 67/548/EEC

This product is not classified as dangerous in accordance to Regulation (EC) No 1272/2008. (GHS) (Not skin irritating. No reference to carcinogenic toxic effects)

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 |

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.