



## SAFETY DATA SHEET MSDS (acc. (EU) No 453/2010)

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### SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING.

#### 1.1 Product identifier.

Product name: KS HIGHTHERMFIX 1100BK  
Product type: sealent/adhesive

#### 1.2 Relevant identified uses of the mixture and uses advised against.

Sealant/adhesive

#### 1.3 Details of the supplier of the safety data sheet.

Supplier: KS Kneissl & Senn Technologie GmbH,  
A-6343 Erl,  
Mühlgraben 43b

Telephone: 05373 76020-0  
Fax: 05373 76020-20

### SECTION 2: HAZARDS IDENTIFICATION.

#### 2.1 Classification of the mixture.

The product is not classified as hazardous within the meaning of Regulation (EU) No 1272/2008.

#### 2.2 Label elements.

The preparation is not classified as hazardous according to the Regulation on classification, packing and labelling of hazardous preparations.

#### 2.3 Other hazards.

The product may have the following additional risks:  
Protect eyes and skin from splashes

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

#### 3.1 Substances.

Not Applicable.

#### 3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

Identifiers	Name	Concentrate	(*)Classification - Regulation (EC) No 1272/2008	
			Classification	specific concentration limit
CAS No: 1332-58-7 EC No: 310-194-1	[1] Kaolin	25 - 50 %	-	-

(\*) The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

[1] Substance with a Community workplace exposure limit (see section 8.1).

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### SECTION 4: FIRST AID MEASURES.

#### 4.1 Description of first aid measures.

Due to the composition and type of the substances present in the product, no particular warnings are necessary.

#### Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance.

#### Eye contact.

If wearing contact lenses, remove them. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

#### Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. **NEVER** use solvents or thinners.

#### Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. **NEVER** induce vomiting.

#### 4.2 Most important symptoms and effects, both acute and delayed.

No known acute or delayed effects from exposure to the product.

#### 4.3 Indication of any immediate medical attention and special treatment needed.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

### SECTION 5: FIREFIGHTING MEASURES.

#### 5.1 Extinguishing media.

##### Recommended extinguishing methods.

Extinguisher powder or CO<sub>2</sub>. In case of more serious fires, also alcohol-resistant foam and water spray. Do not use a direct stream of water to extinguish.

#### 5.2 Special hazards arising from the mixture.

##### Special risks.

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

#### 5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways.

##### Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and gloves.

### SECTION 6: ACCIDENTAL RELEASE MEASURES.

#### 6.1 Personal precautions, protective equipment and emergency procedures.

For exposure control and individual protection measures, see section 8.

#### 6.2 Environmental precautions.

Product not classified as hazardous for the environment, avoid spillage as much as possible.

#### 6.3 Methods and material for containment and cleaning up.

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Pick up the spill with non-combustible absorbent materials (soil, sand, vermiculite, diatomite, etc.). Pour the product and the absorbent in an appropriate container. The contaminated area should be immediately cleaned with an appropriate decontaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

## 6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.  
 For later elimination of waste, follow the recommendations under section 13.

## SECTION 7: HANDLING AND STORAGE.

### 7.1 Precautions for safe handling.

The product does not require special handling measures, the following general measures are recommended:  
 For personal protection, see section 8. Never use pressure to empty the containers. They are not pressure-resistant containers.  
 In the application area, smoking, eating, and drinking must be prohibited.  
 Follow legislation on occupational health and safety.  
 Keep the product in containers made of a material identical to the original.

### 7.2 Conditions for safe storage, including any incompatibilities.

The product does not require special storage measures.  
 As general storage measures, sources of heat, radiation, electricity and contact with food should be avoided.  
 Keep away from oxidising agents and from highly acidic or alkaline materials.  
 Store the containers between 5 and 35° C, in a dry and well-ventilated place.  
 Store according to local legislation. Observe indications on the label.  
 The product is not affected by Directive 2012/18/EU (SEVESO III).

### 7.3 Specific end use(s).

Sellado y adhesión de elementos resistentes al fuego

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

### 8.1 Control parameters.

Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m <sup>3</sup>
Kaolin	1332-58-7	United Kingdom [1]	Eight hours		2
			Short term		

[1] According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adopted by Health and Safety Executive.

The product does NOT contain substances with Biological Limit Values.

### 8.2 Exposure controls.

#### Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

<b>Concentration:</b>	<b>100 %</b>
<b>Uses:</b>	<b>adhesivo refractario</b>
<b>Breathing protection:</b>	
If the recommended technical measures are observed, no individual protection equipment is necessary.	
<b>Hand protection:</b>	
If the product is handled correctly, no individual protection equipment is necessary.	
<b>Eye protection:</b>	
If the product is handled correctly, no individual protection equipment is necessary.	
<b>Skin protection:</b>	
PPE:	Work footwear.
Characteristics:	«CE» marking, category II.
CEN standards:	EN ISO 13287, EN 20347
Maintenance:	This product adapts to the first user's foot shape. That is why, as well as for hygienic reasons, it should not be used by other people.



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Observations:	Work footwear for professional use includes protection elements aimed at protecting users against any injury resulting from an accident
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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

#### 9.1 Information on basic physical and chemical properties.

Appearance: Liquid with characteristic odour and colour

Colour: gris

Odour: cemento

Odour threshold: N.A./N.A.

pH: 10 - 11

Melting point: na °C

Boiling Point: 100,7 °C

Flash point: N.A./N.A.

Evaporation rate: na

Inflammability (solid, gas): No aplicable

Lower Explosive Limit: na

Upper Explosive Limit: na

Vapour pressure: No determinada

Vapour density: No aplicable

Relative density: 1.55 g/cc g/cm<sup>3</sup>

Solubility: en agua

Liposolubility: immiscible

Hydrosolubility: miscible

Partition coefficient (n-octanol/water): No aplicable

Auto-ignition temperature: N.A./N.A.

Decomposition temperature: N.A./N.A.

Viscosity: sup a 50000 cps

Explosive properties: No aplicable

Oxidizing properties: No aplicable

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

#### 9.2. Other information.

VOC content (p/p): 0 %

VOC content: 0 g/l

### SECTION 10: STABILITY AND REACTIVITY.

#### 10.1 Reactivity.

The product does not present hazards by their reactivity.

#### 10.2 Chemical stability.

Unstable in contact with:

- Acids.

#### 10.3 Possibility of hazardous reactions.

Neutralization can occur on contact with acids.

#### 10.4 Conditions to avoid.

- Avoid contact with acids.

#### 10.5 Incompatible materials.

Avoid the following materials:

- Acids.

#### 10.6 Hazardous decomposition products.

Depending on conditions of use, can be generated the following products:

- Corrosive vapors or gases.

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### SECTION 11: TOXICOLOGICAL INFORMATION.

#### 11.1 Information on toxicological effects.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.  
Splatters in the eyes can cause irritation and reversible damage.

- a) acute toxicity;  
Not conclusive data for classification.
- b) skin corrosion/irritation;  
Not conclusive data for classification.
- c) serious eye damage/irritation;  
Not conclusive data for classification.
- d) respiratory or skin sensitisation;  
Not conclusive data for classification.
- e) germ cell mutagenicity;  
Not conclusive data for classification.
- f) carcinogenicity;  
Not conclusive data for classification.
- g) reproductive toxicity;  
Not conclusive data for classification.
- h) STOT-single exposure;  
Not conclusive data for classification.
- i) STOT-repeated exposure;  
Not conclusive data for classification.
- j) aspiration hazard;  
Not conclusive data for classification.

### SECTION 12: ECOLOGICAL INFORMATION.

#### 12.1 Toxicity.

No information is available regarding the ecotoxicity of the substances present.

#### 12.2 Persistence and degradability.

No information is available about persistence and degradability of the product.

#### 12.3 Bioaccumulative potential.

No information is available regarding the bioaccumulation of the substances present.

#### 12.4 Mobility in soil.

No information is available about the mobility in soil.  
The product must not be allowed to go into sewers or waterways.  
Prevent penetration into the ground.

#### 12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

#### 12.6 Other adverse effects.

No information is available about other adverse effects for the environment.

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### SECTION 13 DISPOSAL CONSIDERATIONS.

#### 13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.  
Follow the provisions of Directive 2008/98/EC regarding waste management.

Waste classification according to the European Waste Catalogue:  
07 WASTES FROM ORGANIC CHEMICAL PROCESSES  
07 07 Wastes from the MFSU of fine chemicals and chemical products not otherwise specified  
07 07 99 Wastes not otherwise specified

Method of treatment according to Directive 2008/98/EC:  
Disposal  
D15 Storage pending any of the operations numbered D 1 to D 14 (excluding temporary storage, pending collection, on the site where the waste is produced)

### SECTION 14: TRANSPORT INFORMATION.

Transportation is not dangerous. In case of road accident causing the product's spillage, proceed in accordance with point 6.

#### 14.1 UN number.

Transportation is not dangerous.

#### 14.2 UN proper shipping name.

Transportation is not dangerous.

#### 14.3 Transport hazard class(es).

Transportation is not dangerous.

#### 14.4 Packing group.

Transportation is not dangerous.

#### 14.5 Environmental hazards.

Transportation is not dangerous.

#### 14.6 Special precautions for user.

Transportation is not dangerous.

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.

Transportation is not dangerous.

### SECTION 15: REGULATORY INFORMATION.

#### 15.1 Safety, health and environmental regulations/legislation specific for the mixture.

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

The product is not affected by Directive 2012/18/EU (SEVESO III).

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

#### 15.2 Chemical safety assessment.

There has been no evaluation a chemical safety assessment of the product.



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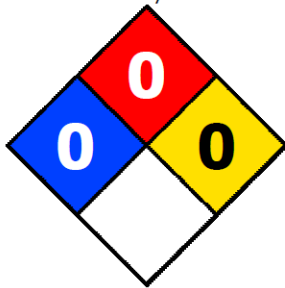
### SECTION 16: OTHER INFORMATION.

Sections changed compared with the previous version:

1,2,3,8,11,14,16

It is recommended that the product only be employed for the purposes advised.

Risk classification system NFPA 704:



Health hazard: 0 (Normal Material)

Flammability: 0 (Will not burn)

Reactivity: 0 (Stable)

Abbreviations and acronyms used:

CEN: European Committee for Standardization.  
PPE: Personal protection equipment.

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) No 453/2010.

Regulation (EC) No 1907/2006.

Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.