

# Safety datasheet

## according to 1907/2006/EC REACH



Commercial name: Calcium silicate plate/retrofit wedges

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### 1. Material/preparation and company designation

<b>Commercial name</b>	Calcium silicate plate/retrofit wedges
<b>Item number and type</b>	Item no. 7202283, type KSI-P1 Item no. 7202904, type KSI-P2 Item no. 7202912, type KSI-P3 Item no. 7206210, type NIK-S
<b>General note</b>	The EU directive 1907/2006/EC Reach, dated 1st June 2007, only requires safety datasheets for substances and mixtures designated as hazardous. This product is a REACH product, therefore a safety datasheet is not a statutory requirement. Nonetheless, we wish to use this document, which is similar to a safety datasheet according to 1907/2006/EC REACH, to provide our customers with the appropriate information for safe handling of the product.
<b>Recommended use</b>	Type KSI.. : calcium silicate plate for fire protection applications Type NIK-S: retrofit wedges for mortar installation
<b>Manufacturer/supplier</b>	OBO Bettermann GmbH & Co. KG Hüingser Ring 52 58710 Menden Germany
<b>Division providing information</b>	Customer Service
<b>Emergency telephone number</b>	Tel.: +49 (0) 23 73 / 89 - 15 00 Fax: +49 (0) 23 73 / 89 - 15 50 Internet: <a href="http://www.obo-bettermann.com">www.obo-bettermann.com</a> e-mail: <a href="mailto:info@obo-bettermann.com">info@obo-bettermann.com</a>

### 2. Possible risks

<b>Hazard designation</b>	N/A
<b>Particular hazard information for people and the environment</b>	N/A

### 3. Composition/details of component parts

<b>Chemical characteristics</b>	Insulating material
<b>Hazardous contents</b>	N/A

#### Other contents

CAS: 1344-95-2 EINECS: 215-710-8	Calcium silicate	50 - 100 %
CAS: 9004-34-6 EINECS: 232-674-9	Cellulose	0 - 10 %

#### 4. First aid measures

<b>General information</b>	Remove articles of clothing soiled with the product.
<b>After inhalation</b>	Ensure a supply of fresh air. If feeling unwell, consult the doctor.
<b>After skin contact</b>	Wash off with copious amounts of water and soap.
<b>After eye contact</b>	With the eyelids open, rinse eyes under running water for several minutes. If feeling unwell for longer periods of time, consult the doctor.
<b>After ingestion</b>	Rinse out the mouth and drink copious amounts of water. If feeling unwell for longer periods of time, consult the doctor.

#### 5. Fire protection measures

<b>Suitable extinguishing agents</b>	Product/substance does not burn. Match the extinguishing agent and fire-fighting measures to fires in the environment.
<b>Particular hazards from the product or its combustion products</b>	Carbon monoxide (CO) and carbon dioxide (CO <sub>2</sub> )
<b>Special protective equipment when fighting fires</b>	Wear breathing protection which works independently of the ambient air.
<b>Additional data</b>	Fire residues and contaminated extinguishing water must be disposed of according to the statutory regulations.

#### 6. Measures in the case of unintentional release

<b>Personal precautionary measures</b>	Ensure sufficient ventilation. Avoid dust build-ups. Do not inhale dust. Avoid eye contact.
<b>Environmental protection measures</b>	Wash down the dust with a spray water jet. Do not let the product enter the sewerage system/surface water/ground water.
<b>Cleaning/collection procedure</b>	Ensure sufficient ventilation. Collect mechanically. Dispose of the collected material according to regulations.

#### 7. Handling and storage

<b>Information on safe handling</b>	Ensure good ventilation/extraction at the workstation. Avoid dust build-ups. If dust forms, provide extraction. Do not inhale dust. Ensure compliance with the workplace limit value(s) and/or other limit values. Avoid contact with the eyes. Avoid lengthy/repeated skin contact.
<b>Information on fire and explosion protection</b>	The product is not combustible.
<b>Requirements for storage rooms and containers</b>	Comply with the specifications for water use.
<b>Joint storage information</b>	Not required.
<b>Additional data on the storage conditions</b>	Store in a dry place.
<b>Storage class</b>	–

## 8. Exposition limitation/personal protective equipment

### Additional information on the design of technical systems

No further data, see Section 7.

### Components with workplace-related limit values to be monitored (EN):

General dust limit values: -  
Inhalable fraction (I dust): 10 mg/m<sup>3</sup> (average layer value)  
Alveolar fraction (A dust): 3 mg/m<sup>3</sup> (average layer value)

### Additional information

The basis was the lists compiled during creation.

### General protection and hygiene measures

Keep away from food, drinks and feed.  
Take off soiled, saturated clothing immediately.  
Do not inhale dust/smoke/mist.  
Avoid contact with the eyes and skin.  
Do not eat, drink, smoke or suffer from a cold during work.  
After work and before breaks, ensure thorough skin cleaning.

### Breathing protection



Breathing protection in case of dust formation.

In the case of permanent compliance with the workplace limit value(s) and/or other limit values, no special measures are required.

### Hand protection



Protective gloves

The selection of the glove material must include observance of the penetration times, permeation rates and degradation.  
The glove material must be impermeable and resistant to the product / the substance / the preparation.  
The intactness must be checked before each reuse of the glove.  
To prevent skin problems, reduce the wearing of gloves to the necessary amount.  
Due to missing tests, it is not possible to recommend a glove material for the product/the preparation/the chemical mixture.

### Glove material

The selection of a suitable glove is not only dependent on the material, but on other quality characteristics, and differs from manufacturer to manufacturer. As the product is a combination of multiple substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.

### Penetration time of the glove material

The gloves should be replaced when they show the first signs of wear. Contact the protective glove manufacturer for the exact penetration time, which must be complied with.

### Eye protection



Protective glasses

### Physical protection

Select the physical protection agent according to the activity and the possible impact.

## 9. Physical and chemical properties

<b>Shape</b>	Solid
<b>Colour</b>	Grey
<b>Smell</b>	Odourless
<b>Melting point/melting range</b>	1500 °C
<b>Boiling point/boiling range</b>	N/A
<b>Ignition point</b>	N/A
<b>Self-ignition</b>	This product does not self-ignite.
<b>Risk of explosion</b>	This product poses no risk of explosion.
<b>Density at 20 °C</b>	0.189 - 0.374 g/cm <sup>3</sup>
<b>Solubility / mixability in water</b>	Cannot or can scarcely be mixed
<b>pH value (100 g/l) at 20 °C</b>	9.9 (Dispersion)

## 10. Stability and reactivity

<b>Thermal decomposition</b>	No decomposition if used correctly.
<b>Substances to be avoided</b>	Acids
<b>Dangerous reactions</b>	No dangerous reactions known.
<b>Dangerous decomposition products</b>	Carbon monoxide (CO) and carbon dioxide (CO <sub>2</sub> )

## 11. Toxicological data

<b>Primary irritant effect on the skin</b>	Fine dust can cause mechanical irritation.
<b>Primary irritant effect on eyes</b>	Fine dust can cause mechanical irritation.
<b>Sensitisation</b>	No sensitising effect known.
<b>Subacute to chronic toxicity</b>	Repeated or longer-lasting inhalation of fine dust can lead to deposits of the dust particles in the lungs.
<b>Additional toxicological information</b>	According to the information available to us, we are not aware of any health risks in the case of correct handling and compliance with the precautionary workplace hygiene measures.

## 12. Ecological data

<b>General information</b>	We do not have any quantitative data on the ecological effect of this product.
<b>Water hazard class</b>	WHC 1 (self-categorisationVwVwS): Slightly hazardous to water.

## 13. Disposal information

<b>Product</b>	Disposal according to official regulations.
<b>Waste code number</b>	The waste code number, according to the waste catalogue ordinance (AVV) is dependent on the waste producer and may thus differ for products. For this reason, the waste code number must be determined specially by each waste producer.
<b>European Waste Catalogue</b>	The assignment of waste code numbers according to the EWC must be carried out specifically for the industry and the process.
<b>Uncleaned packaging</b>	Disposal according to official regulations.

## 14. Transport information

<b>Road transport ADR</b>	Not a hazardous substance in the sense of the transport regulations NOT CLASSIFIED AS "DANGEROUS GOODS"
<b>Rail transport RID</b>	
<b>Inland ship transport ADN</b>	
<b>Overseas transport IMDG</b>	
<b>Air transport IATA</b>	
<b>Mass good transportation acc. to MARPOL 73/78 and IBC Code</b>	

## 15. Data on legal specifications

<b>Labelling according to EEC directives</b>	The product does not require labelling due to the calculation method in the most recently valid version of the "General Classification Guideline for Preparations of the EC". Although this product does not require mandatory labelling, we recommend complying with the safety suggestions.
<b>S statements</b>	S 22: Do not inhale dust. S 25: Avoid contact with eyes.
<b>Hazardous Incident (Reporting) Ordinance</b>	Hazardous incident (reporting) ordinance, appendix: not named
<b>Classification according to operating safety ordinance (BetrSichV)</b>	–
<b>Water hazard class</b>	WHC 1 (self-categorisationVwVwS): Slightly hazardous to water.
<b>Other specifications, restrictions and banning ordinances</b>	BGV A 5: Accident prevention specification "First Aid" A 008: "Personal protective equipment" BGR 189 "Rules for the use of protective clothing" (previously ZH 1/105) BGR 190 "Rules for the use of breathing protection devices" (previously ZH 1/701) BGR 192 " Use of eye and face protection" (previously ZH 1/703) BGR 195 "Rules for the use of protective gloves" (previously ZH 1/706) BGR 197 "Use of skin protection" (previously ZH 1/708)

## 16. Additional data

<b>Compilation ordinance</b>	This safety datasheet was compared <b>according to</b> Article 31 and Appendix II of the EC REACH ordinance and the ordinance (EC) no. 1907/2006.
<b>Literature details and data sources</b>	EC directive 67/548/EEC and EC directive 1999/45/EC Ordinance (EC) 1272/2008 National air limit values Transport regulations according to ADR, RID, IMDG, IATA, valid edition Internal data
<b>Liability waiver</b>	This data is provided according to our latest knowledge, but does not provide any guarantee of product properties and does not provide any legal guarantee. No claim to completeness is made.