

# Material Safety Data Sheet

According to 93/112/EF

## Silicon Nitride-bonded Silicon Carbide Bricks

March 2009  
Rev. No.: 08

01	<b>Product Identification</b>	<b>SICAL-78</b>
	Company	Skamol A/S Østergade 58-60 DK-7900 Nykøbing Mors Denmark Phone: +45-97721533                      Fax: +45-97724975 E-mail: insulation@skamol.dk              www.skamol.com
	Producers	Tangshan Hexagon Silicon Carbide Co., Ltd., China. Tangshan Strong Refractories Co., Ltd., China
02	<b>Chemical Composition</b> Substances and CAS No.	Silicon carbide; silicon nitride; silicon; silicon oxide nitride; iron (III) oxide, aluminium oxide, calcium oxide, iron silicide. CAS No.: 409-21-2; 12033-60-2; 7440-21-3; 11105-01-4; 1309-37-1; 11092-32-3; 1305-78-8; 12022-99-0. No content of health hazardous substances.
03	<b>Health Hazard</b>	No special marking is required.
04	<b>First Aid</b>	Due to the physical form of the product, the following precautions are relevant only in case of cutting. Fresh air in case of sickness or discomfort. No special precautions. Rinse in plenty of Water. - -
	Inhalation	
	Skin contact	
	Eye contact	
	Burn	
	Other information	
05	<b>Fire Precautions</b>	The product is non-combustible, refractory - -
	Extinguishing equipment	
	Risks	
	Personal protective equipment	
06	<b>Spills</b>	- Vacuuming of spills. See item 13 below.
	Personal protective equipment	
	Environmental protection	
	Clearing	
07	<b>Handling and storage</b>	No special precautions. No law-enforced requirements. Dry storage recommended. -
	Work place	
	Storage	
	Packing	
08	<b>Preventive measures/ personal protective equipment</b>	- The use of dust filters is recommended when cutting the product. Working gloves recommended. Protective glasses recommended when cutting the product.
	Control method and tolerances	
	Breathing protection	
	Hand and skin protection	
	Eye protection	

09 <b>Physico-chemical properties</b>	Chemical composition: SiC (78%); Si <sub>3</sub> N <sub>4</sub> (18%); SiO <sub>2</sub> + Si <sub>2</sub> ON <sub>2</sub> (2.0%); Si (0.5%); Al <sub>2</sub> O <sub>3</sub> + Fe <sub>2</sub> O <sub>3</sub> + CaO (1.5%); Appearance: Grey Density (bulk): 2650 kg/m <sup>3</sup> (165 lbs/cu.ft) Solubility in water: Non-soluble Release of poisonous gas: None Electric conduction: Non-conducting
10 <b>Stability and Reactivity</b>	Stable under normal circumstances.
11 <b>Toxicological Measures</b> Inhalation Consumption Skin contact Eye contact Long-term effects	Inhalation of dust may irritate the upper air passage. - - Mechanical irritation. No known effects.
12 <b>Environmental Precautions</b>	None
13 <b>Disposal</b>	EWC-code: 16 03 04 Spills or waste can be removed as general building waste according to local regulations. If during use the product takes up foreign substances, this must be taken into account on removal.
14 <b>Transportation</b>	Outside classification limits.
15 <b>Labelling and classification</b> Danger symbols The product contains Risk regulations Safety regulations Special labelling regulations National regulations	None - - - None -
16 <b>Other Information</b> Application  Restrictions of use Training requirements	Side wall lining in reduction cells. Max. service temperature 1580°C (2876°F). - None
<b>Prepared by</b>	Skamol Laboratory