



# Material Safety Data Sheet

## SICAL Mortar

### 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

<b>SUPPLIED BY:</b> Skamol A/S Østergade 58-60 DK-7900 Nykøbing Mors Denmark Phone: 011 45 97 72 15 33 Fax: 011 45 97 72 49 75 E-mail: insulaton@skamol.dk		<b>EMERGENCY TELEPHONE:</b> United States Phone: (704) 544 1015 Fax: (704) 544 1239 E-mail: skamolamericas@skamol.dk  See Section 16 for address of U.S. contact.
<b>TRADE NAME:</b> SICAL Mortar  <b>CHEMICAL NAME:</b> Silicon Carbide powder	<b>SYNONYMS:</b> Silicon Carbide Mortar	
<b>PREPARED BY:</b> Clayton Group Services, Inc.	<b>REVISED BY:</b> Skamol A/S	<b>DATE OF ISSUE/REVISION:</b> March 2008

### 2. INGREDIENTS

<u>Component</u>	<u>CAS Number</u>	<u>Percent</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>Units</u>
Silicon carbide	409-21-2	>85	10*, A4	15*, 5**	mg/m <sup>3</sup>
Silicon dioxide	112945-52-5	<5	NE	NE	--
Aluminum dihydrogenphosphate	13530-50-2	< 6	NE	NE	--
Aluminum oxide	1344-28-1	<2	10, A4	15*, 5**	mg/m <sup>3</sup>
Iron (III) oxide	1309-37-1	<1	5, A4	10	mg/m <sup>3</sup>
Calcium oxide	1305-78-8	< 1	2	5	mg/m <sup>3</sup>
Cobalt oxide	1307-96-6	<1	NE	NE	--
Magnesium oxide	1309-48-4	<1	NE	NE	--
Potassium oxide	12136-45-7	<1	NE	NE	--
Titanium dioxide	13463-67-7	<1	10, A4	15*	mg/m <sup>3</sup>
Vanadium pentoxide	1314-62-1	<1	0.05**, A4	0.5** (C)	mg/m <sup>3</sup>
Other	Various	<1	NE	NE	--

ACGIH means American Conference of Governmental Industrial Hygienists  
 OSHA means Occupational Safety and Health Administration  
 < means "less than"  
 \* means total dust  
 A4 means not classifiable as a human carcinogen

\*\* means respirable dust  
 mg/m<sup>3</sup> means milligrams of contaminant per cubic meter of sampled air, on a weight-to-volume basis  
 NE means "not established"



### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Gray mortar. The dry powder of the mortar (before it is mixed with water) and dusts generated during sawing, cutting, or abrading the product may cause irritation of the eyes, skin, mucous membranes, and respiratory tract. Use appropriate personal protective equipment. Keep unnecessary personnel out of the area when working with the product.

#### POTENTIAL HEALTH EFFECTS:

Eye Contact: Dusts may cause irritation.

Skin Contact: Dusts may cause irritation.

Skin Absorption: Not known to be absorbed through intact skin.

Inhalation: Dusts may cause respiratory tract and mucous membrane irritation.

Ingestion: Not expected to be a significant route of entry into the body. Ingestion of large amounts of the product may cause irritation of the mouth, esophagus, and stomach.

#### CHRONIC AND CARCINOGENIC HEALTH EFFECTS:

The International Agency for Research on Cancer (IARC) in Monograph 68 indicates that titanium dioxide and iron (III) oxide are not classifiable as a carcinogen in humans.

Pre-existing lung and skin conditions may be aggravated by prolonged exposure to high concentrations of dust before mixed the mortar with water, while sawing, cutting, or abrading the product.

### 4. FIRST AID MEASURES

Inhalation: Remove exposed person to fresh air. If breathing is difficult, oxygen may be administered. If breathing has stopped, artificial respiration should be started immediately. Seek medical attention.

Eyes: Flush with tepid water for at least 20 minutes while holding the eyelids wide open. Seek medical attention if irritation persists.

Skin: Wash thoroughly with mild soap and water. Seek medical attention if irritation persists. Launder contaminated clothing before reuse.

Ingestion: Not expected to be a significant route of entry into the body. If large amounts of the product are ingested, seek medical attention.

### 5. FIREFIGHTING MEASURES

FLASH POINT: None

LEL: None

UEL: None

AUTOIGNITION TEMPERATURE: None

Product will not burn in air. Use firefighting methods suitable for other materials present in the surrounding fire.

A self-contained breathing apparatus operating in positive-pressure mode and full firefighting gear should be worn for combating fires.



## 6. ACCIDENTAL RELEASE MEASURES

Clean area using methods that avoid dust generation such as a high-efficiency particulate air (HEPA) vacuum, wet dust mop, or wet clean up. Use an appropriate National Institute of Occupational Safety and Health (NIOSH)-approved respirator whenever airborne concentrations of hazardous components exceed exposure limits listed in Section 2. Although the product is not classified as a hazardous material under United States Environmental Protection Agency (USEPA) and United States Department of Transportation (DOT) regulations, material collected during cleanup may be contaminated with hazardous materials. If there is a potential for contamination with hazardous materials, material collected during cleanup should be treated as hazardous until specific testing, including Toxicity Characteristic Leaching Procedure (TCLP), shows the material to be non-hazardous.

## 7. HANDLING AND STORAGE

Wear appropriate personal protective equipment cited in Section 8 during handling. Good housekeeping practices should be employed to prevent generation and accumulation of dusts.

After handling product, wash face and hands before eating, drinking, or smoking.

## 8. EXPOSURE CONTROL - PERSONAL PROTECTION

### ENGINEERING CONTROLS:

Use adequate local exhaust (preferably) or general ventilation to ensure that concentrations of dusts do not exceed exposure limits cited in Section 2.

### PERSONAL PROTECTION:

Wear safety glasses with side shields when handling the dry mortar powder (before mixed with water) and when sawing, cutting, or abrading the final product.

Use a NIOSH-approved respirator with HEPA cartridges whenever airborne concentrations of hazardous components exceed exposure limits listed in Section 2. Employees who use respiratory protection must be included in a respiratory protection program that conforms to the requirements of OSHA standards or corresponding state laws and regulations.

Wear protective gloves and clothing to prevent skin contact with dusts. See Section 3 for specific health hazards.

Soiled work clothing and personal protective equipment should be thoroughly cleaned before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE AND PHYSICAL STATE:** Dark gray powder.  
Mortar is dark gray when mixed.

**ODOR:** H<sub>2</sub>S (<< 0.1 %) when mixed with water

**VAPOR DENSITY (AIR=1):** Not applicable

**VAPOR PRESSURE:** Not applicable

**BOILING POINT:** Not applicable

**EVAPORATION RATE:** Not applicable

**pH:** 2.5, when mixed with water

**MELTING POINT:** Not applicable

**% VOLATILES BY VOLUME:** Not volatile

**% SOLUBILITY IN WATER:** Not soluble

**SPECIFIC GRAVITY/BULK DENSITY:**  
Approximately 83 lbs/cu ft (1330 kg/m<sup>3</sup>)

**OCTANOL/WATER PARTITION COEFFICIENT:**  
Not applicable



## 10. STABILITY AND REACTIVITY

**STABILITY (CONDITIONS TO AVOID):** None known. Product is stable.

**INCOMPATIBILITIES:** No known chemical incompatibilities.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

The International Agency for Research on Cancer (IARC) in Monograph 68 lists titanium dioxide and iron (III) oxide as Category 3, not classifiable as human carcinogens.

## 12. ECOLOGICAL INFORMATION

Detailed studies on the environmental fate of the product have not been conducted.

## 13. DISPOSAL CONSIDERATIONS

This product is not classified as a hazardous waste under current USEPA regulations. Disposal at an USEPA-approved landfill is recommended. If product may be contaminated with other materials, testing, including TCLP, should be performed to determine the hazard characteristics. It is the user's responsibility to dispose of all wastes in accordance with local, state, and federal regulations.

## 14. TRANSPORTATION INFORMATION

**DOT Classification:** Not currently regulated under U.S. Department of Transportation rules.

## 15. REGULATORY INFORMATION

### OSHA:

This product is not hazardous using the criteria in the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). However, the dry powder of the mortar and dust generated while using this product may be hazardous as noted in Sections 2 and 3. Therefore the product should be handled with care.

### TSCA:

Components of this product are listed on the Toxic Substances Control Act (TSCA) inventory.

### SARA:

The listed components of this product are not subject to the requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986.

### State Regulatory Information:

Components of this product are not listed in California Proposition 65 as known cancer-causing agents.



## 16. OTHER INFORMATION

**U.S. CONTACT:** Skamol Americas, Inc.  
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**IMPORTANT SAFETY NOTICE:** The information in the Material Safety Data Sheet relates only to the specific material described herein and does not relate to use in combination with any other material or substance or in any process. We believe that the information contained herein is current as of the date of issue of this Material Safety Data Sheet.

Because the use of this information and the conditions of use of this product are not within the control of Skamol A/S and Skamol, Inc., it is the user's obligation to determine the conditions of safe use of this product.

Users of this product should study this Material Safety Data Sheet and become aware of the product hazards and safety information before using the product. Users should also notify their employees, agents, and contractors regarding information contained in this Material Safety Data Sheet and any product hazards and safety information in order to provide for safe use of this product.