

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION, AND OF THE COMPANY/UNDERTAKING**

**1.1 Identification of the substance or preparation**

Product Names: black silicon carbide

**1.2 Use of the substance / preparation**

**1.3 Other means of identification**

**1.4** Company Name: Simba Materials Limited t/a CTM Potters Supplies

# Unit 7-8, Broomhouse Lane Ind Estate, Edlington, Doncaster DN12 1EQ ++44 (0)1709 770801

# Unit 10A, Millpark Ind Estate, White Cross Road, Woodbury Salterton, EX5 1EL ++44 (0)1395 233077

**2: HAZARDS IDENTIFICATION**

**· 2.1 Classification of the substance or mixture**

**· Classification according to Regulation (EC) No 1272/2008**



health hazard

Carc. 1A H350 May cause cancer.

**· Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



T; Toxic

R49: May cause cancer by inhalation.

**· Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

**· Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

**· 2.2 Label elements**

**· Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the Globally Harmonized System within the United States (GHS).

The substance is classified and labelled according to the CLP regulation.

**· Hazard pictograms**



GHS08

Signal word - DANGER

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· **Hazard-determining components of labelling:**

Quartz (SiO<sub>2</sub>)

· **Hazard statements**

H350 May cause cancer.

· **Precautionary statements**

P281

Use personal protective equipment as required.

P202

Do not handle until all safety precautions have been read and understood.

P308+P313

If exposed or concerned: Get medical advice/attention.

P501

Dispose of contents/container in accordance with local/regional/national international regulations.

· **Additional information:**

Restricted to professional users.

· **Hazard description:**

· **WHMIS-symbols:**

D2A - Very toxic material causing other toxic effects



· **NFPA ratings (scale 0 – 4)**

Health =0

Flammability =0

Reactivity =0



· **HMIS-ratings (scale 0 - 4)**

Health =0

Flammability =0

Reactivity =0



\* - Indicates a long term health hazard from repeated or prolonged exposures.

**HMIS Long Term Health Hazard Substances**

14808-60-7                  Quartz (SiO<sub>2</sub>)

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3: COMPOSITION/INFORMATION ON INGREDIENTS

· **3.1 Substances**

· **CAS No. Description**

409-21-2 silicon carbide

· <b>Impurities and stabilizing additives:</b>		
CAS: 14808-60-7	EINECS: 238-878-4	Quartz (SiO <sub>2</sub> )
		T R49; Xn R48 Carc. 1A, H350

### 4: FIRST AID MEASURES

· **4.1 Description of first aid measures**

· **General information:** No special measures required.

· **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

# SAFETY DATA SHEET

## · After skin contact:

Brush off loose particles from skin.  
Clean with water and soap.  
If skin irritation continues, consult a doctor.

## · After eye contact:

Immediately remove contact lenses if possible.  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

## · After swallowing:

Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; call for medical help immediately.

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

Coughing  
Gastric or intestinal disorders.

· Hazards Danger of impaired breathing.

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

No further relevant information available.

## 5: FIREFIGHTING MEASURES

### · 5.1 Extinguishing media

· Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

· For safety reasons unsuitable extinguishing agents: None.

· 5.2 Special hazards arising from the substance or mixture No further relevant information available.

### · 5.3 Advice for firefighters

#### · Protective equipment:

Wear self-contained respiratory protective device.  
Wear fully protective suit.

## 6: ACCIDENTAL RELEASE MEASURES

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

Avoid formation of dust.  
Ensure adequate ventilation.  
For large spills, wear protective clothing.  
For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

· 6.2 Environmental precautions: No special measures required.

### · 6.3 Methods and material for containment and cleaning up:

Pick up mechanically.  
Send for recovery or disposal in suitable receptacles.  
Dispose contaminated material as waste according to item 13.

### · 6.4 Reference to other sections

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7: HANDLING AND STORAGE

### · 7.1 Precautions for safe handling

Prevent formation of dust.  
Any unavoidable deposit of dust must be regularly removed.  
Use only in well ventilated areas.  
Avoid breathing dust.

· Information about fire - and explosion protection: No special measures required.

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

#### · Storage:

· Requirements to be met by storerooms and receptacles: No special requirements.

· Information about storage in one common storage facility: Store away from oxidizing agents.

# SAFETY DATA SHEET

**· Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.  
 Store receptacle in a well ventilated area.  
 Protect from humidity and water.  
 This product is hygroscopic.

**7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

<b>Ingredients with limit values that require monitoring at the workplace:</b>	
<b>409-21-2 Silicon Carbide</b>	
PEL (USA)	Long-term value: 15* 5** mg/m <sup>3</sup> fibrous dust: *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV (USA)	Long-term value: 10* 3** mg/m <sup>3</sup> fibrous dust:0,1 f/cc; nonfibrous:*inh.,**resp.
EL (Canada)	Long-term value: 10* 3** mg/m <sup>3</sup> *inhalable;**respirable
EV (Canada)	Long-term value: 10* 3** mg/m <sup>3</sup> , 0,1f/cc*** ppm nonfibrous: *inh.,**resp.; ***fibrous, resp.
<b>14808-60-7 Quartz (SiO<sub>2</sub>)</b>	
PEL (USA)	see Quartz listing
REL (USA)	Long-term value: 0,05* mg/m <sup>3</sup> *respirable dust; See Pocket Guide App. A
TLV (USA)	Long-term value: 0,025* mg/m <sup>3</sup> *as respirable fraction
EL (Canada)	Long-term value: 0,025 mg/m <sup>3</sup> ACGIH A2; IARC 1
EV (Canada)	Long-term value: 0,10* mg/m <sup>3</sup> *respirable fraction

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.
- **Additional information:** The lists valid during the making were used as basis.

**· 8.2 Exposure controls**

**· Personal protective equipment:**

**· General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid close or long term contact with the skin.

Do not inhale dust / smoke / mist.

**· Respiratory protection:**

Suitable respiratory protective device recommended.

Use suitable respiratory protective device in case of insufficient ventilation.

For spills, respiratory protection may be advisable.

**· Protection of hands:**

Wear gloves for the protection against mechanical hazards according to NIOSH or EN 388.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

# SAFETY DATA SHEET

## · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

## · Eye protection:



Safety glasses

## · Body protection:

Not required under normal conditions of use.  
Protection may be required for spills.

· **Limitation and supervision of exposure into the environment** No special requirements.

· **Risk management measures** No special requirements.

## 9: PHYSICAL AND CHEMICAL PROPERTIES

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

#### General Information

#### Appearance:

· Form:	Granulate
· Color:	Black
· Odor:	Odorless
· Odor threshold:	Not determined.
· pH-value:	Neutral

#### · Change in condition

**Melting point/Melting range:** Not Determined.

**Boiling point/Boiling range:** Undetermined.

· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Product is not flammable.
· Auto/Self-ignition temperature:	Not determined.
· Decomposition temperature:	4712 °F / 2600 °C (Sublimation)
· Self-igniting:	Not determined.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	

**Lower:** Not determined.

**Upper:** Not determined.

· Vapor pressure: Not applicable.

· Density at 20 °C: 3.20 g/cm<sup>3</sup>

· Relative density: Not determined.

· Vapor density: Not applicable.

· Evaporation rate: Not applicable.

· Solubility in / Miscibility with water: Insoluble.

· 9.2 Other information: No further relevant information available

# SAFETY DATA SHEET

## 10: STABILITY AND REACTIVITY

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**  
Reacts with strong acids.  
Reacts with oxidizing agents.  
Reacts with strong alkali.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

## SECTION 11: TOXICOLOGICAL INFORMATION

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Carcinogenic if inhaled.
- **Repeated dose toxicity:** May cause damage to organs through prolonged or repeated exposure.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** Carc. 1A

## 12: ECOLOGICAL INFORMATION

- **12.1 Toxicity**
- **Aquatic toxicity:** Generally not hazardous for water
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** Does not accumulate in organisms.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Negative ecological effects are, according to the current state of knowledge, not expected.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

## 13: DISPOSAL CONSIDERATIONS

- **13.1 Waste treatment methods**
- **Recommendation**  
Smaller quantities can be disposed of with household waste. Can be reused after reprocessing.  
Contact waste processors for recycling information.  
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

# SAFETY DATA SHEET

## 14: TRANSPORT INFORMATION

- 14.1 UN-Number
- DOT, ADR, ADN, IMDG, IATA Not Regulated
- 14.2 UN proper shipping name
- DOT, ADR, ADN, IMDG, IATA Not Regulated
- 14.3 Transport hazard class(es)
- DOT, ADR, ADN, IMDG, IATA
- Class Not Regulated
- 14.4 Packing group
- DOT, ADR, IMDG, IATA Not Regulated
- 14.5 Environmental hazards:
- Marine pollutant: No
- 14.6 Special precautions for user Not applicable.
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.
- UN "Model Regulation": -

## 15: REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

· Section 355 (extremely hazardous substances):	Substance is not listed.
· Section 313 (Specific toxic chemical listings):	Substance is not listed.
· TSCA (Toxic Substances Control Act):	Substance is listed.

- Proposition 65 (California):

· Chemicals known to cause cancer:		
14808-60-7	Quartz (SiO <sub>2</sub> )	
· Chemicals known to cause reproductive toxicity for females:		Substance is not listed.
· Chemicals known to cause reproductive toxicity for males:		Substance is not listed.
· Chemicals known to cause developmental toxicity:		Substance is not listed.

- Carcinogenic Categories

· EPA (Environmental Protection Agency)		
Substance is not listed.		
· IARC (International Agency for Research on Cancer)		
14808-60-7	Quartz (SiO <sub>2</sub> )	1
· TLV (Threshold Limit Value established by ACGIH)		
409-21-2	Silicon Carbide	A2
14808-60-7	Quartz (SiO <sub>2</sub> )	A2
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
14808-60-7	Quartz (SiO <sub>2</sub> )	

- Canada

· Canadian Domestic Substances List (DSL)	Substance is listed.
· Canadian Ingredient Disclosure list (limit 0.1%)	Substance is not listed.
· Canadian Ingredient Disclosure list (limit 1%)	Substance is not listed.

# SAFETY DATA SHEET

## Other regulations, limitations and prohibitive regulations

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

- **Substances of very high concern (SVHC) according to REACH, Article 57** Substance is not listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### · Abbreviations and acronyms:

**ADR:** Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

**IMDG:** International Maritime Code for Dangerous Goods

**DOT:** US Department of Transportation

**IATA:** International Air Transport Association

**GHS:** Globally Harmonized System of Classification and Labelling of Chemicals

**ACGIH:** American Conference of Governmental Industrial Hygienists

**EINECS:** European Inventory of Existing Commercial Chemical Substances

**ELINCS:** European List of Notified Chemical Substances

**CAS:** Chemical Abstracts Service (division of the American Chemical Society)

**NFPA:** National Fire Protection Association (USA)

**HMIS:** Hazardous Materials Identification System (USA)

**WHMIS:** Workplace Hazardous Materials Information System (Canada)

**DNEL:** Derived No-Effect Level (REACH)

**PNEC:** Predicted No-Effect Concentration (REACH)

**Carc. 1A:** Carcinogenicity, Hazard Category 1A