## **CTM Potters Supplies**

## ZIRCONIUM SILICATE

Safety Data Sheet 29

Date of issue: 02/03/2017

Revision date:

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II – Europe ZIRCON SAND / FLOUR / OPACIFIER

#### **SAFETY DATA SHEET**

#### ZIRCON SAND / FLOUR / OPACIFIER

# SECTION 1: Identification of the substance / mixture and of the company / undertaking

#### 1.1 Product identifier

Product / trade name: Zirconium Silicate: Zircon Sand / "Zircozon"/ "Zirc 5"

EC number: 239-019-6 CAS number: 14940-68-2 Product type: Solid

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Material uses: Industrial applications: Ceramics, Refractories, foundry applications, abrasives, and

other zirconium containing compounds.

#### Identified uses:

Not subject to REACH registration. Naturally occurring substance.

### 1.3 Details of the supplier of the safety data sheet. Simba Materials Limited t/a CTM Potters Supplies

Unit 7-8 Broomhouse Lane Ind Est, Edlington, Doncaster DN12 1EQ T +44 (0)1709 770801- F +44 (0)1709 770803 doncaster@ctmpotterssupplies.co.uk

Unit 10a Millpark Ind Estate, White Cross Road, Woodbury Salterton, EX5 1EL +44 (0)1395 233077 - F +44 (0)1395 233905 admin@ctmpotterssupplies.co.uk

#### 1.4 Emergency telephone number

Office hours only: +44 (0)1709 770801

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

**Product definition:**Mono-constituent substance

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

#### Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

Not classified.

### Classification according to Directive 67/548/EEC (DSD)

Not classified.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

See Section 12 for environmental precautions.

#### 2.2 Label elements:

Signal word: No signal word.

Hazard Statements: No known significant effects or critical hazards.

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#### **Precautionary statements:**

General: Not applicable.
Prevention: Not applicable.
Response: Not applicable.
Storage: Not applicable.
Disposal: Not applicable.

Hazardous ingredients: Zircon

Supplemental label: Safety data sheet available for professional user on request.

#### 2.3 Other hazards:

Other hazards which do

Not available.

not result in classification:

## **SECTION 3: Composition / information on ingredients**

#### **3.1 Substance / mixture:** Mono-constituent substance

Product / ingredient name	Identifiers	%	Classification No. 67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
Zircon (ZrSiO <sub>₄</sub> )	EC: 239-019-6	>96	Not classified.	Not classified.	[A]
Rutile (TiO <sub>2</sub> )	CAS: 14940-68-2 EC: 215-282-2 CAS: 1317-80-2	<0.6	Not classified.	Not classified.	[B]
Quartz (SiO <sub>2</sub> )	EC: 238-878-4 CAS: 14808-60-7	0.5	Not classified.	Not classified.	[B]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

#### **Additional Information**

This product as supplied contains less than 0.01% respirable crystalline silica (RCS).

This material is a naturally occurring radioactive material (NORM) and is considered a radioactive product (IAEA radioactive material if above 1 Bq/g) however it is not considered a radioactive product for transportation purpose, limit of 10 Bq/g for NORM. Some countries may use different limits; therefore local regulations should be consulted for the latest requirements.

Uranium 285 – 343 ppm 3.5 – 4.3 Bq/g Thorium 116 – 157 ppm 0.5 – 0.6 Bg/g

Other daughter nuclides: In secular equilibrium

The contact dose rate from bulk quantities is in the order of 1 to  $2\mu Sv/h$  above the background. A person may work in dust concentrations of 3 mg/m³ for a full year with out exceeding the maximum dose for a worker. Respirable dust levels in typical zircon processing operations are reported in IAEA Safety Report No 51, and are less than 25% of the maximum dose to workers of 1 mSv/y (ICRP).

For downstream users of zircon, the thermal production of zirconia can generate risks associated with worker exposure to radioactive dust; and the chemical production of zirconia can generate risks associated with disposal of radionuclide containing wastes. It is recommended that regulatory guidance be obtained by the producers of zirconia, when using zircon.

For more details on the composition, refer to the Certificate of Analysis.

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**Type** 

[A] Constituent [B] Impurity

[C] Stabilizing additive

Occupational exposure limits, if available, are listed in Section 8.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

**Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and

lower eyelids. Check for and remove any contact lenses. Get medical attention if

irritation occurs.

Inhalation:Move exposed person to fresh air. Get medical attention if symptoms occur.Skin contact:Wash with soap and water. Get medical attention if symptoms occur.Ingestion:Wash out mouth with water. Get medical attention if symptoms occur.

**Protection of first-aiders:** No special protection is required. See Section 8 for information on appropriate

personal protective equipment.

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

#### Potential acute health effects

Eye contact:No known significant effects or critical hazards.Inhalation:No known significant effects or critical hazards.Skin contact:No known significant effects or critical hazards.Ingestion:No known significant effects or critical hazards.

#### Over exposure signs or symptoms

Eye contact:No specific data.Inhalation:No specific data.Skin contact:No specific data.Ingestion:No specific data.

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

**Notes to physician:** Treat symptomatically. No specific treatment.

**Specific treatments:** No specific treatment.

## **SECTION 5: Fire fighting measures**

5.1 Extinguishing media

**Suitable extinguishing** Use an extinguishing agent suitable for the surrounding fire.

media:

**Unsuitable extinguishing** None known.

media:

#### 5.2 Special hazards arising from the substance or mixture

**Hazards from the**No specific fire or explosion hazard.

substance or mixture

Hazardous combustion None.

**Products** 

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5.3 Advice for fire fighters

Special protective actions

For fire-fighters:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without

suitable training.

Special protective

equipment for fire fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for

chemical incidents.

### SECTION 6: Accidental release measures

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

For non-emergency

Personnel:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from

entering. Do not touch or walk through spilt material. Put on appropriate personal

protective equipment.

For emergency responders:

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the

information in "for non-emergency personnel".

**6.2 Environmental precautions:** Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused

environmental pollution (sewers, waterways, soil or air).

#### 6.3 Methods and materials for containment and cleaning up

Move containers from spill area. Vacuum or sweep up material and place in a Small spill:

designated, labelled waste container. Dispose of via a licensed waste disposal

contractor.

Large spill: Move containers from spill area. Prevent entry into sewers, water courses,

> basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section

13 for waste disposal.

6.4 Reference to other

See Section 1 for emergency contact information.

Sections:

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

## **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

**Protective measures:** Put on appropriate personal protective equipment (see Section 8).

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

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

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7.3Specific end uses(s)

**Recommendations: Industrial sector specific**  Not available. Not available.

solutions

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

#### Occupational exposure limits

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

	Product/ingredient name	Exposure limit values
Zircon	(ZrO <sub>2</sub> )	EH40/2005 WELs (United Kingdom, 8/2007).  TWA: 5 mg/m³. (as Zr) 8 hour(s).  STEL: 10 mg/m³, (as Zr) 15 minute(s).
Quartz	(SiO <sub>2</sub> )	EH40/2005 WELs (United Kingdom, 8/2007). TWA: 0.1 mg/m³ 8 hour(s). Form: Respirable dust

**Recommended monitoring** procedures:

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

**DNELs/DMELs:** No DNELs/DMELs available.

PNECs: No PNECs available.

8.2 Exposure controls

Appropriate engineering

controls:

Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants

below any recommended or statutory limits.

Individual protection measures

Eye / face protection: Safety eyewear complying with an approved standard should be used when

a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Recommended: If operating conditions cause high dust concentrations to be produced, use dust goggles.

Skin protection

Chemical-resistant, impervious gloves complying with an approved standard Hand protection:

should be worn at all times when handling chemical products if a risk

assessment indicates this is necessary.

Personal protective equipment for the body should be selected based on the **Body protection:** 

task being performed and the risks involved and should be approved by a

specialist before handling this product. Recommended: overall.

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Other skin protection: Appropriate footwear and any additional skin protection measures should

be selected based on the task being performed and the risks involved and

should be approved by a specialist before handling this product.

**Respiratory protection:** Use a properly fitted, air-purifying or air-fed respirator complying with an

approved standard if a risk assessment indicates this is necessary.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the

selected respirator.

**Environmental exposure** 

controls:

Avoid creating dusty conditions and prevent wind dispersal.

Personal protective Equipment (Pictograms):









### SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state: Solid. [Granular solid].

Colour:White. Beige.Odour:Odourless.Odour threshold:Not applicable.pH:Not applicable.

Melting point/freezing point: 2250°C

Initial boiling point and Not applicable.

boiling range:

Flash point:

Evaporation rate:

Flammability (solid, gas):

Burning time:

Burning rate:

Upper/lower flammability

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

or explosive limits:

Vapour pressure:Not applicable.Vapour density:Not applicable.Bulk Density:1.7-3 [g/cm³]Granulometry:7 - 130 MicronsRelative density:Not applicable.

**Solubility(ies):** Insoluble in the following materials: cold water, hot water, methanol, diethyl

ether, n-octanol and acetone.

Partition coefficient: Not applicable.

n-octanol/water

Auto-ignition temperature: Not applicable.

Decomposition temperature: Not applicable.

Viscosity: Not applicable.

Explosive properties: Not applicable.

Oxidizing properties: Not applicable.

Molecular weight: Not applicable.

#### 9.2 Other information

No additional information.

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## **SECTION 10: Stability and reactivity**

**10.1Reactivity:** No specific test data related to reactivity available for this product

or its ingredients.

**10.2 Chemical stability:** The product is stable.

10.3 Possibility of hazardous Under normal conditions of storage and use, hazardous reactions will not

reactions: occur.

10.4 Conditions to avoid: No specific data.10.5 Incompatible materials: None known.

**10.6 Hazardous** Under normal conditions of storage and use, hazardous decomposition

decomposition products: products should not be produced.

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Zircon (ZrSiO <sub>4</sub> )	LD50 Oral LD50 Oral	Rat Rat	>10g/kg 10 g/kg	-

**Conclusion/Summary:** Inert substance. Very low toxicity to humans or animals.

<u>Irritation/Corrosion</u> Conclusion/Summary:

Skin:Non-irritating to the skin. OECD 404Eyes:Non-irritating to the eyes. OECD 404Respiratory:Non-irritating to the respiratory system

**Sensitisation** 

**Conclusion / Summary:** 

**Skin:** Non-sensitizer to skin. **Respiratory:** Non sensitizer

<u>Mutagenicity</u>

Conclusion / Summary: Not mutagenic in Ames test.

**Carcinogenicity** 

Conclusion / Summary: Not available.

Reproductive toxicity

Conclusion / Summary: Not available.

**Teratogenicity** 

Conclusion / Summary: No teratogenic effect. In vitro

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

**Aspiration hazard:** 

Not applicable.

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Information on the likely routes of exposure:

Routes of entry anticipated: Oral, Dermal and Inhalation.

#### Potential acute health effects

Inhalation:No known significant effects or critical hazards.Ingestion:No known significant effects or critical hazards.Skin contact:No known significant effects or critical hazards.Eye contact:No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:No specific data.Ingestion:No specific data.Skin contact:No specific data.Eye contact:No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short-term exposure** 

Potential immediate Not available.

effects:

Potential delayed effects: Not available.

Long-term exposure

Potential immediate Not available.

effects:

Potential delayed effects: Not available

#### Potential chronic health affects

**Conclusion / Summary:** Prolonged and / or massive exposure to respirable crystalline silica-containing dust

may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of

fine respirable particles of crystalline silica.

General:

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Mutagenicity:
No known significant effects or critical hazards.

Teratogenicity:
No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Fertility effects:
No known significant effects or critical hazards.

Other information: Prolonged and / or massive exposure to respirable crystalline silica-containing dust

may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of

fine respirable particles of crystalline silica.

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### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Test	Result	Species	Exposure
Zircon (ZrSiO₄)	OECD 201 Chronic Growth inhibition	EC10>1 mg/l	Algae	28 days
	OECD 201 Acute Growth inhibition	EC50 >100 mg/l	Algae	72 hours
	OECD 202	EC50 >100 mg/l	Daphnia	48 hours
	OECD 203 Survival	EC50 >100 mg/l	Fish	96 hours

**Conclusion / Summary:** No known significant effects or critical hazards.

12.2 Persistence and degradability

**Conclusion / Summary:** Inorganic. Not readily biodegradable.

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Zircon	-	-	

12.4 Mobility in soil

Soil / water partition Not available.

coefficient (Koc):

Mobility: Not available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable

P: Not available. B: Not available. T: Not available.

**vPvB:** Not applicable.

vP: Not available. vB: Not available.

**12.6 Other adverse effects:** No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

**Product** 

**Methods of disposal:** The generation of waste should be avoided or minimised wherever possible.

Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal

legislation and any regional local authority requirements.

**Hazardous waste:** Within the present knowledge of the supplier, this product is not regarded as

hazardous waste, as defined by EU Directive 91/689/EEC.

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**Special precautions:** This material and its container must be disposed of in a safe way. Empty

containers or liners may retain some product residues. Avoid dispersal of spilt

material and runoff and contact with soil, waterways, drains and sewers

## **SECTION 14: Transport information**

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional Information	-	-	-	-

14.6 Special precautions for

Not applicable.

user:

14.7 Transport in bulk

Proper shipping name:

Compliant to IMSBC

according to Annex II of MARPOL 73/78 and the

**IBC Code** 

#### SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

**Annex XIV** 

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII -

Restrictions on the manufacture, placing on

Not applicable.

the market and use of certain dangerous

substances, mixtures and

articles:

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**Other EU regulations** 

Priority List Chemicals: Not listed

(793/93/EEC)

Integrated pollution prevention Not listed

and control list (IPPC)-Air:

Integrated pollution prevention Not listed

and control list (IPPC)-Water:

#### **Seveso II Directive**

This product is not controlled under the Seveso II Directive

**International regulations** 

Australia inventory (AICS):

Canada inventory:

China inventory (IECSC):

Europe inventory:

Japan inventory:

All components are listed as exempted.

**New Zealand inventory of** 

**Chemicals (NZIoC):** All components are listed as exempted.

Philippines inventory

(PICCS): All components are listed as exempted.

**United States inventory** 

(TSCA 8b): All components are listed as exempted.

15.2 Chemical Safety

**Assessment:** Not applicable.

### **SECTION 16: Other information**

\* Indicates information that has changed from previously issued version.

**Abbreviations and** ATE = Acute Toxicity Estimate

**Acronyms:** CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

IMSBC = International Maritime Solid Bulk Cargoes Code

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

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Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

Classification	Justification
Not classified.	

Full text of abbreviated H

statements:

Not applicable.

Full text of classifications

Not applicable.

[CLP/GHS]:

Full text of abbreviated R

Not applicable.

Phrases:

Full text of classifications

Not applicable.

[DSD/DPD]:

**Additional information** 

Date of issue/ Date of revision: 29/07/2015 Date of previous issue: 14/06/2013

Version: 2.0

Europe/EN-GB

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its agents or subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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