Simba Materials Limited t/a

CTM Potters Supplies

STANNIC / TIN OXIDE

Safety Data Sheet 23

Date of issue: 17/03/2017

Revision date:

Tin Oxide (SnO₂) - All Grades

Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier Tin Oxide

CAS Number: 18282-10-5 IUPAC Nomenclature: tin dioxide

Synonyms: tin(IV) oxide, stannic oxide REACH registration number: 01-2119946062-44-0000

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

Uses of the substance include, but are not limited to, as a raw material for use in ceramic colours and glazes, electrodes for glass melting, electrical contact materials, electrical and electronic components, brake pads, polishing

There are currently no uses that are advised against for the 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 Estate, 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 T +44 (0)1395 233077 - F +44 (0)1395 233905 admin@ctmpotterssupplies.co.uk

1.4. Emergency telephone number + 44 (0) 1709 770801 Office hours only

2 Hazards identification

2.1. Classification of the substance or mixture

Tin oxide is not classified as a hazardous substance for carriage or supply

2.2. Label Elements Not applicable

2.3. Other hazards Chronic exposure to tin dioxide dust may cause Stannosis

(pneumoconiosis)

3 Composition/information on ingredients

3.1. Substances

tin dioxide, chemical formula SnO₂

Synonyms: tin(IV) oxide, tin oxide, stannic oxide

CAS Number: 18282-10-5 EC Number: 242-159-0

SDS Ref: SML 23 - 17-03-2017 Page 1 of 4

CTM Potters Supplies

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4 First aid measures

4.1. Description of first aid measures

Inhalation: Remove from exposure to fresh air Skin contact: The substance is non-irritating

Eye contact: Flush eyes with copious amounts of water Ingestion: In case of persistent symptoms consult doctor

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

May be irritating to eyes

Chronic exposure to tin dioxide dust may cause Stannosis (pneumoconiosis)

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

No additional requirements other than those listed in Section 4.1.

5 Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: As appropriate to the surrounding environment

Unsuitable extinguishing media: None

5.2. Special hazards arising from the substance or mixture

Special hazards: None known

5.3. Advice for firefighters

Additional advice for firefighters: No special measures required

6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Do not breathe dust. Wear appropriate personal protective equipment

6.2. Environmental precautions

No special measures required

6.3. Methods and material for containment and cleaning up

Vacuum cleaner or wet-sweeping. Neutralising chemicals not required

6.4. Reference to other sections

Refer to Sections 8 and 13 for exposure controls/personal protection and disposal considerations

7 Handling and storage

7.1. Precautions for safe handling

Avoid causing dust. Use local exhaust ventilation or adequate respiratory protective equipment

7.2. Conditions for safe storage, including any incompatibilities

No special requirements

7.3. Specific end use(s)

Refer to Section 1.2.

SDS Ref: SML 23 - 17-03-2017 Page 2 of 4

CTM Potters Supplies

STANNIC / TIN OXIDE

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8.1. Control parameters

8

Inhalation: Workplace Exposure Limits:

Exposure controls/personal protection

Tin dioxide: 2mg.m⁻³ (as Sn) Long-term exposure limit

(8-hour TWA reference period)

4mg.m⁻³ (as Sn) Short-term exposure limit

(15-minute reference period)

8.2. Exposure controls

Use local exhaust ventilation or adequate respiratory protective equipment to maintain exposure below Workplace Exposure Limits

9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: White powder Odour: Odourless

pH: neutral (100g/l slurry)

Melting point: Decomposes in air at 1613 °C

Flammability: Non-flammable

Relative density: 6.936

Solubility in water: Practically insoluble (below detection limit)

9.2. Other information

Non applicable

10 Stability and reactivity

10.1. Reactivity Stable under normal conditions of storage and use10.2. Chemical stability Stable under normal conditions of storage and use

10.3. Possibilities of hazardous reactions None known
 10.4. Conditions to avoid None known
 10.5 Incompatible materials None known
 10.6. Hazardous decomposition products None known

11 <u>Toxicological information</u>

11.1. Information on toxicological effects

Acute toxicity, oral Non-toxic - LD₅₀ greater than 2.0g/kg bodyweight

Acute toxicity, inhalation: Non-toxic - LC₅₀ greater than 2.04mg/l

(maximum test concentration attainable)

Chronic exposure to tin dioxide dust may cause Stannosis

(pneumoconiosis)

Skin corrosion / irritation: Non-irritating
Skin sensitisation: Non-sensitising

Eye contact: May cause mild irritation to eyes

SDS Ref: SML 23 - 17-03-2017 Page 3 of 4

CTM Potters Supplies

STANNIC / TIN OXIDE

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Ecological information

Insoluble in water, stable and inert under normal environmental conditions

12.1. Toxicity

12

Invertebrates (Daphnia magna) 24 h EC₅₀ > 0.1 g/l

48 h EC₅₀ > 0.1 g/l NOEC ≥ 0.1 g/l

Single Cell Green Alga (Desmodesmus subspicatus) 72 h EC₅₀ > 100 mg/l

72 h NOEC 9.77 mg/l 72 h LOEC 31.3 mg/l

Fish (Oncorhynchus mykiss) 96 h LC50 > 100 mg/l

Microorganisms (Activated sludge) 3 h EC50 > 1000 mg/l

12.2. Persistence and degradability No data
12.3. Bioaccumulative potential No data
12.4. Mobility in soil No data

12.5. Results of PBT and vPvB assessment No data, assessment not required

12.6. Other adverse effects None known

13 Disposal considerations

13.1. Waste treatment methods

Disposal of product / packaging: According to official regulations

14 <u>Transport information</u>

14.1. UN Number Not classified as dangerous goods

14.2. UN proper shipping name Not applicable
14.3. Transport hazard class(es) Not applicable
14.4. Packing group Not applicable
14.5. Environmental hazards None known

14.6. Special precautions for user None

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

15 Regulatory information

15.1. Safety, health and environmental regulations/legislation Not applicable specific for the substance or mixture

15.2. Chemical safety assessment Not required, substance is not classified

16 Other information

Exposure limits reference: EH40/2005 Workplace exposure limits

(as amended December 2011)

Compiled in accordance with: Regulation (EC) No. 1272/2008

The information given is based on our present state of knowledge and does not represent a

guarantee of any product characteristics

SDS Ref: SML 23 - 17-03-2017 Page 4 of 4