



MATERIAL SAFETY DATA SHEET  
(Directive 2001/58/EC)

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Issue: 4  
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**TIN OXIDE (SnO<sub>2</sub>) - ALL GRADES**

**1 PRODUCT AND COMPANY INFORMATION**

Substance identification: TIN (IV) OXIDE

Company identification: Keeling & Walker Limited,  
Whieldon Road,  
Stoke-on-Trent,  
ST4 4JA, ENGLAND.

Emergency contact number: + 44 (0) 1782 744 136

**2 COMPOSITION / INFORMATION ON INGREDIENTS**

Tin (IV) oxide, chemical formula SnO<sub>2</sub>

Synonyms: stannic oxide, tin dioxide

Chemical Abstract Number: CAS 18282-10-5

European Inventory Number: EINECS 2421590

**3 HAZARDS IDENTIFICATION**

Tin (IV) oxide is not classified as a substance dangerous for carriage or supply

Tin (IV) oxide is not hazardous to the environment

No Risk or Safety phrases are assigned

Inhalation: Chronic exposure to tin oxide dust may induce Stannosis (pneumoconiosis)

**4 FIRST AID MEASURES**

Inhalation: Remove from exposure to fresh air

Ingestion: In case of persistent symptoms consult doctor

Eye contact: Flush eyes with copious amounts of water

Skin contact: The substance is not skin-irritating

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**5 FIRE-FIGHTING MEASURES**

Suitable extinguishing media:	Any
Unsuitable extinguishing media:	None
Exposure hazards:	None known
Protective equipment for fire-fighters:	No special measures required

**6 ACCIDENTAL RELEASE MEASURES**

Personal precautions:	Do not breath dust. Wear personal protective equipment
Environmental precautions:	No special measures required
Neutralising chemicals:	Not required
Method of clean-up:	Vacuum cleaner or wet-sweeping

**7 HANDLING AND STORAGE**

Precautions during handling:	Avoid causing dust. Use local exhaust ventilation or adequate respiratory protective equipment
Storage and packaging:	No special requirements

**8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

Inhalation:	Occupational Exposure Limits:
Tin oxide:	2mg m <sup>-3</sup> (as Sn) 8 hour time weighted average (TWA) 4mg m <sup>-3</sup> (as Sn) short term exposure limit (STEL)
Protective measures:	Use local exhaust ventilation or adequate respiratory protective equipment to maintain exposure below Occupational Exposure Limits

**9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	White powder, no odour
Specific gravity:	Approximately 6.95
Solubility in water:	Insoluble, pH of slurry neutral
Flammability:	Non-flammable
Melting point:	Approximately 1630 °C
Boiling point:	Sublimates between 1800 °C and 1900 °C

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**10 STABILITY AND REACTIVITY**

Conditions to avoid: None known

Materials to avoid: None known

Hazardous decomposition products: None known

**11 TOXICOLOGICAL INFORMATION**

Inhalation: Chronic exposure to tin oxide dust may cause Stannosis (pneumoconiosis)

Ingestion: Non-toxic (LD<sub>50</sub> greater than 2.0g/kg bodyweight)

Eye contact: May be irritating to the eyes

Skin contact: No irritating effect

**12 ECOLOGICAL INFORMATION**

Environmental effect: Insoluble in water, stable and inert under normal environmental conditions

**13 DISPOSAL CONSIDERATIONS**

Disposal of product: According to official regulations

Disposal of packaging: According to official regulations

**14 TRANSPORT INFORMATION**

Special precautions: None

**15 REGULATORY INFORMATION**

Risk Phrases: None assigned

Safety Phrases: None assigned

Classification Symbol: None assigned

**16 OTHER INFORMATION**

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