



MATERIAL SAFETY DATA SHEET

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SILICA DOPED TIN OXIDE (SnO₂)

1 PRODUCT AND COMPANY INFORMATION

Substance identification: HIGH SURFACE AREA TIN OXIDE (HSATO-S*)
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 (SnO₂) doped with silica (SiO₂)
Synonyms: Stannic oxide, tin dioxide
CAS Numbers: Tin oxide 18282-10-5 / Silica 7631-86-9
EINECS Numbers: Tin oxide 2421590 / Silica 2315454

3 HAZARDS IDENTIFICATION

The preparation is not classified as dangerous for carriage or supply and is not considered hazardous to the environment

No Risk or Safety phrases are assigned

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

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: Wash with soap and water

SILICA DOPED TIN OXIDE (SnO₂)**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 (as Sn):	2mg m ⁻³ - 8 hr TWA / 4mg m ⁻³ - 15 min STEL
Silica:	Total 6mg m ⁻³ / respirable 3mg m ⁻³ (8 hr TWA)
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 or pale yellow 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

SILICA DOPED TIN OXIDE (SnO₂)**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 dust may cause pneumoconiosis

Ingestion: Non-toxic (LD₅₀ greater than 2.0g/kg bodyweight)

Eye contact: May be irritating to the eyes

Skin contact: May have a drying effect on skin

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

HMSO Publication: EH40 Occupational Exposure Limits

The above information is based on our present state of knowledge and is given in good faith. Data presented does not represent a guarantee of any product characteristics.