

FLUORINE DOPED TIN OXIDE**5. FIRE-FIGHTING MEASURES**

- 5.1. Not considered to be a fire hazard.
- 5.2. Suitable extinguishing media: Any
- 5.3. Exposure hazards: May release toxic fumes (hydrogen fluoride) under fire conditions.
- 5.4. Protective equipment for fire-fighters: Use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

- 7.1. Precautions during handling: Use local exhaust ventilation or adequate respiratory protective equipment.
Do not breathe dust.
Avoid contact with eyes, skin and clothing.
- 7.2. Storage and packaging: No special requirements.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1. Inhalation: Occupational Exposure Limits:
- 8.2. Tin oxide: 2mg m⁻³ (as Sn) 8 hour time weighted average
4mg m⁻³ (as Sn) short term exposure limit
- 8.3. Protective measures: Use local exhaust ventilation or adequate respiratory protective equipment to maintain exposure below the Occupational Exposure Limits given above.

FLUORINE DOPED TIN OXIDE**9. PHYSICAL AND CHEMICAL PROPERTIES**

9.1. Appearance:	Off white powder
9.2. Odour:	No odour
9.3. Specific gravity:	Approximately 6.9 – 7.0
9.4. Solubility in water:	Practically insoluble
9.5. Flammability:	Non-flammable
9.6. Melting point:	In excess of 1000°C
9.7. Boiling point:	No information
9.8. Vapour pressure:	No information

10. STABILITY AND REACTIVITY

10.1. Stability:	Stable under normal conditions of use.
10.2. Conditions to avoid:	None known.
10.3. Materials to avoid:	Strong acids. Strong oxidising agents.
10.4. Hazardous decomposition products:	Hydrogen fluoride.

11. TOXICOLOGICAL INFORMATION

11.1. Inhalation:	Chronic exposure to tin oxide dust may induce Stannosis (pneumoconiosis).
11.2. Ingestion:	Tin (IV) oxide: LD ₅₀ > 2.0g/kg oral, rat

12. ECOLOGICAL INFORMATION

12.1. Environmental effect:	Practically insoluble in water, stable and inert under normal environmental conditions
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13. DISPOSAL CONSIDERATIONS

13.1. Disposal of product:	According to official regulations
13.2. Disposal of packaging:	According to official regulations

14. TRANSPORT INFORMATION

14.1. Fluorine doped tin oxide is not classified as a substance dangerous for carriage.

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15. REGULATORY INFORMATION

15.1. Risk Phrases: None assigned

15.2. Safety Phrases: None assigned

15.3. Classification Symbol: None assigned

16. OTHER INFORMATION

HMSO Publication: EH40 Occupational Exposure Limits

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