

Bath Potters' Supplies

MATERIAL SAFETY DATA SHEET

1. Identification of the preparation/Supplier reference

Trade Name **Tin Oxide**
Chemical name SnO₂
Synonyms Stannic oxide, tin IV oxide, tin dioxide, superlite tin oxide.
Supplier Bath Potters Supplies, Unit 18, Fourth Avenue, Westfield Trading Estate,
Radstock, Nr. Bath. BA3 4XE
Emergency numbers Tel: 01761 411077
Fax: 01761 414115
Internet: coshh@bathpotters.demon.co.uk

2. Composition

Component	CAS	EINECS	% of composition
Tin IV oxide	18282-10-5	2421590	97%
Plus trace impurities (as oxides)			3%

3. Health Hazard Identification

Inhalation Excessive exposure may cause respiratory irritation with possible cumulative effects.
Ingestion Low sol. product in body fluids and likely to be of low acute toxicity.
Eyes May cause physical irritation and inflammation.
Skin The material is not a primary irritant but as with any abrasive powder it may give rise to irritation and/or sensitisation.

4. First Aid Measures

Inhalation Remove patient to fresh air and loosen tight clothing. Seek medical attention if the inhalation is particularly large, or if any irritation persists.
Ingestion Do not induce vomiting. Rinse mouth with copious amounts of water and provide fresh air.
Eyes Wash immediately with copious amounts of water while lifting the eyelid. Seek medical attention if irritation persists.
Skin Wash affected areas with soap and water. If irritation persists, seek medical attention.

5. Fire Fighting Measures

Extinguishing Media Suitable for surrounding fire conditions
The product is not explosive or combustible. Standard fire fighting techniques only are required, i.e. water, sand, carbon dioxide, chemical foam extinguishers etc.
Special Exposure hazard Since Tin Oxide is already fully oxidised it is very unlikely that it could cause any fire and/or explosion.
Protective equipment None required other than for surrounding conditions.

6. Accidental Release Measures

Leaks & Spills Remove dry materials either by a vacuum cleaner fitted with an efficient particulate filter or by damping down and scooping in to a receptacle.
Protective equipment Respiratory protective equipment.

7. Handling & Storage

Handling Do not eat, drink, or smoke in areas where the material is used. Wash thoroughly after handling the material. Local exhaust ventilation is recommended to comply with occupational exposure limits

(refer to Guidance Note EH40 - latest edition).

Storage Store in dry area, and keep containers closed when not in use.

8. Exposure Control/Personal protective Equipment

Engineering controls Adequate ventilation should be provided so that Occupational Exposure Limits are not exceeded. Local Exhaust Ventilation is normally recommended.

Personal protective equipment Where LEV is not practicable and exposure is likely to be excessive, approved respiratory protection to CEN standards prEN 140, 141, 143 or 149 should be worn. Chemically resistant protective gloves and overalls are recommended for prolonged contact. Safety goggles should be used for prolonged contact.

9. Physical & Chemical properties

Appearance & Odour White odourless powder.

Flash point (°C) Not applicable

Flammability Not applicable

Explosive properties Non-explosive

Oxidising properties None

Specific gravity 6.8 – 7

pH value Not known (insoluble in water)

Melting point (°C) Not available

10. Stability & Reactivity

Chemical stability The material is stable

Conditions/materials to avoid Avoid any substances which might lead to the formation of volatile hydrides or halides or of organic tin compounds. Avoid contact with acids.

Hazardous decomposition products None known

Hazardous polymerisation products None known

11. Toxicology Information

Acute toxicology LD₅₀ Oral Not known
LD₅₀ Dermal Not known
LD₅₀ Inhalation Not known

Health effects As with any respirable dust, prolonged or repeated exposure above Occupational Exposure Standards may cause fibrosis of the lungs. Chronic exposure to tin oxide through the inhalation route of dust may induce Stannosis (pneumoconiosis).

12. Ecological information

Ecotoxicity Practically insoluble in water, stable and inert under normal environmental conditions.

Persistence The substance is inert and not expected to cause a hazard.

13. Disposal

Dispose in accordance with current waste Disposal regulations (for UK - Control of Pollution (Special Waste) Regulations 1980). Landfill is the most appropriate method.

14. Transport Information

UN/SI No. Not classified

UN Class Not classified

Packing group Not classified

Road UK Not classified

ADR Not classified

Sea IMO Not classified

15. Regulatory information

EC Supply Labelling	None required by directive 88/379/EEC, and subsequent amendments.	
R-Phrases	Optional R-phrases; R36 Irritating to the eyes. R38 Irritating to the skin.	
S-Phrases	Optional S-phrases; S13 Keep away from food, drink and animal feeding stuffs. S20/21 When using do not eat, drink or smoke. S22/23 Do not breath dust or spray. S38 In case of insufficient ventilation wear suitable respiratory equipment.	
UK Occupational exposures limits*	Mg/m ³ 8 hr TWA	% in product
Tin IV oxide	2.0	97%

* Refer to HSE Guidance note EH40. All products containing lead compounds are subject to the control of lead at work regulations 1980, via the HSC approved code of practise 1985.

In accordance with the H.S.E. Approved Code of Practice for CHIP, the recipient is reminded of their obligations under both the Health and Safety at Work Act (HSWA) and the Control of Substances Hazardous to Health Regulations (COSHH), and that the information in any safety data sheet does not constitute the user's assessment of workplace risk.

16. Other information

General industrial hygiene practices are recommended when handling and using this product.

COSHH ACOP:	H.S.C. Approved Code of Practice for the Control of Substances Hazardous to Health Regulations 1994.
CHIP 96:	Chemicals (Hazard Information and Packaging for Supply) Regulations 1996.
CHIP SDS ACOP:	H.S.C. Approved Code of Practice for Safety Data Sheets in accordance with regulation 6 of the CHIP regulations.
HSE EH40:	HSE Guidance note EH40 on Occupational Exposure Limits, to be used in conjunction with the COSHH regulations.
EP'92:	Environmental Protection (Duty of Care) regulations 1992 SI 2839.
CDRR 1994:	Carriage of Dangerous goods by Road and Rail Regulations 1994.
CA 1974:	Control of pollution Act 1974.
EPA 1990:	Environmental Protection Act 1990.
HFLPSR 1972:	Highly Flammable Liquids and Petroleum Spirit Regulations 1972.

The information contained in this safety data sheet has been prepared using the best available information. However, in view of technical developments this may alter.

The material must only be used for its stated purpose and the information contained within this data sheet is offered solely for use in the evaluation of this product in respect of safety, health and environmental hazards.

Due to the many factors outside our control when using this product we cannot accept liability for any injury, accident, loss or damage caused through its use.

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