Bath Potters' Supplies

MATERIAL SAFETY DATA SHEET

1. Identification of the preparation/Supplier reference

Trade Name	**Titanium Dioxide**
Chemical name	
Synonyms	None known
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

Components.	CAS	EINECS	% of composition
Titanium Dioxide	13463-67-7		>98%
Silicon Dioxide	7631-86-9		<1% approx

3. Health Hazard Identification

Inhalation	Product can be regarded as a low toxicity dust. Excessive inhalation of dust may cause irritation of the respiratory tract and cause symptoms of chronic lung disease. Prolonged or excessive exposure to the product may result in impaired breathing capacity.
Ingestion	Product can be regarded as low toxicity material and is likely to be of low solubility in body fluids.
Eyes	Not a primary irritant, but prolonged contact may give rise to physical irritation and inflammation as with many powders.
Skin	Not a primary irritant, but persistent contact may cause sensitisation by abrasion.

4. First Aid Measures

Inhalation	Remove patient to fresh air, loosen tight clothing and seek medical attention if any irritation of the respiratory tract persists.
Ingestion	Do not induce vomiting. If the patient is conscious rinse mouth with water and give plenty of water to drink. Seek medical advice if irritation persists.
Eyes	Wash with copious amounts of water for at least 15 minutes, and seek medical attention if the irritation persists.
Skin	Remove contaminated clothing. Wash affected areas with soap and water, if any adverse reaction occurs obtain medical advice.

5. Fire Fighting Measures

Extinguishing Media	Suitable for surrounding fire conditions. The product is not explosive or flammable. Standard fire fighting techniques only are required, i.e. water, carbon dioxide, dry powder, sand and chemical foam extinguishers.
Special Exposure hazard	Suitable for surrounding fire conditions.
Protective equipment	Suitable for surrounding fire conditions.

6. Accidental Release Measures

Leaks & Spills	Small amounts may be washed into drains with plenty of water, but observe local effluent control limits. Remove dry materials either by a vacuum cleaner fitted with an efficient particulate filter, or by damping down and scooping in to a receptacle prior to disposal.

Protective equipment	Local exhaust ventilation is recommended to comply with occupational exposure limits (refer to Guidance Note EH40 - latest edition), personal respiratory protection should be used if local exhaust is not available.

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), to avoid spreading and inhalation dust in use.
Storage	Store in normal dry conditions.

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 and preferable to personal protection (refer to Guidance Note EH40 - latest edition).
Personal protective equipment	Where local exhaust is unavailable, H.S.E. - approved personal respiratory protection should be used. Gloves and overalls should be used along with safety goggles if contact with eyes is otherwise possible.

9. Physical & Chemical properties

Appearance & Odour	Finely divided white odourless powder.
Flash point (ºC)	Not applicable
Flammability	Not applicable
Explosive properties	Non-explosive
Oxidising properties	Non-oxidising
Specific gravity	3.8-3.9
pH value	Not known
Melting point (ºC)	Approximately 1800°C

10. Stability & Reactivity

Chemical stability	The material is stable under normal conditions.
Conditions/materials to avoid	None known.
Hazardous decomposition products	None known.
Hazardous polymerisation products	None.

11. Toxicology Information

Acute toxicology	LD_{50} Oral(mouse) >10,000mg/kg LD_{50} Dermal Not known LD_{50} Inhalation Not known
Health effects	The product is considered to be of low oral toxicity by the ingestion route, however prolonged or repeated exposure to dusts above Occupational Exposure Standards may cause fibrosis of the lungs.

12. Ecological information

Ecotoxicity	Not soluble in water and no adverse effects to the environment are expected.
Persistence	The product is chemically stable and will persist in the environment.

13. Disposal

Dispose in accordance with current waste Disposal regulations (for UK - Control of Pollution (Special Waste) Regulations 1996). Landfill is the most appropriate method. Minor amounts may be washed to trade effluent drains provided effluent conditions are complied with.

14. Transport Information

UN/SI No.		Not restricted
UN Class		Not restricted
Packing group		Not restricted
Road	UK	Not restricted
	ADR	Not restricted
Sea	IMO	Not restricted
Air	ICAO	Not restricted

15. Regulatory information

EC Supply Labelling	None required by directive 88/379/EEC
R-Phrases	None
S-Phrases	Optional safety phrases; S20/21 When using do not eat, drink or smoke S22/23 Do not breathe dust or spray S25 Avoid contact with eyes S38 In case of insufficient ventilation wear suitable respiratory equipment.
UK Occupational exposures limits*	Mg/m^3 8 hr TWA % in product
Total inhalable dust	10
Total respirable dust	5

* Refer to HSE Guidance note EH40

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.

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.

August 2000-08-11