

# SAFETY DATA SHEET

5578 TITANIUM DIOXIDE

#### 1. Identification of substance/preparation and of the company undertaking

Trade Name: Titanium Dioxide
Chemical Name: Titanium Dioxide

Synonyms: Rutile

#### 2. Composition /information on ingredients

Component	CAS	EINECS	% of composition
Titanium Dioxide TiO2	13463-64-7	-	>95%
Titanium Dioxide TiO2	13163-64-7	-	>98%

#### 3. Hazards Identification

**Inhalation** Excessive exposure may cause symptoms of chronic lung disease.

**Ingestion** The product is of low solubility in body fluids and it is likely to be of low 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 minor irritation.

#### 4. First Aid Measures

InhalationRemove patient to fresh air, loosen tight clothing and seek medical attention.IngestionDo not induce vomiting, give plenty of water to drink, seek medical advice.

**Eyes** Wash immediately with copious amounts of water.

**Skin** Wash affected areas with water.

#### 5. Fire Fighting Hazards

**Extinguishing Media** Suitable for surrounding fire conditions

Special Exposure Hazard None

**Personal protective equipment** None other than required for surrounding fire conditions.



#### 6. Accidental Release Measure

Leaks and Spills

Use suitable vacuum equipment where reasonably practicable,

otherwise damp down and scoop into a receptacle.

**Personal 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.

Storage Store in a dry area.

#### 8. Exposure Control/Personal Protection

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. Protective gloves and overalls are

recommended for prolonged contact.

#### 9. Physical & Chemical Properties

Appearance and Odour Pale brown powder, odourless

Flash Point (°C) Not applicable
Flammability Not applicable
Explosive properties Non-explosive

Oxidising properties None Specific gravity 3-5

**pH value** 7 (insoluble in water)

Melting point (°C) Not available

#### 10. Stability & Reactivity

Chemical Stability The material is stable

Conditions/ materials to avoidNone knownHazardous decomposition productsNone knownHazardous polymerization productsNone



### 11. Toxicological Information

Acute toxicology	LD50	Oral (mouse)	>10,000mg/kg	
	LD50	Dermal	Not known	
	LD50	Inhalation	Not known	
Health effects	Prolonged or repeated exposure above Occupational Exposure			
	Standards may ca	Standards may cause fibrosis of the lungs.		

#### 12. Ecological Information

**Ecotoxicity** Not known

Persistence The product is chemically stable and will persist in the environment.

#### 13. Disposal Considerations

Dispose of 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	
Air	ICAO	Not classified	

#### 15. Regulatory Information

EC Supply Labelling Non hazardous R phrases None

S Phrases Optional for dusty powders

S20/21 When using do not eat, drink or smoke.S38 In case of sufficient ventilation wear suitable

respiratory equipment.

UK Occupational exposures limits (Refer to HSE Guidance note EH40)	Mg/m³	8 hr TWA	% in product
Dusts- Total Inhalable		10	-
Total respirable		5	-

In accordance with HSE 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 constitutes the user's assessment of the workplace risk.



## 16. Other Information

References	
COSHH ACOP	HSC approved Code of Practice for the Control of Substances Hazardous o Health Regulations 1994
CHIP 96	Chemicals (Hazardous Information and Packaging for Supply) Regulations 1996
CHIP SDS ACOPS	HSC 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.