



The Soap Kitchen  
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## MATERIAL SAFETY DATA SHEET

Issue No. 5  
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### 1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER

Name:

**A310** Titanium Dioxide

Chemical Characterisation: Pigment White 6 - C.I. 77891

Function: Cosmetic colour

Supplier: The Soap Kitchen

### 2. HAZARDS IDENTIFICATION

This product contains no substances classified as hazardous to health. No adverse environmental effects are known to result from the use of titanium dioxide pigments. They are insoluble and in the environment are practically inert materials.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Contains: Titanium dioxide

FDA Description: Titanium dioxide

Japan Reference: Titanium dioxide

EU Number: E171

EU Reference: Annex IV Pt 1

Hazardous components:

R

EINECS:

236-675-5

Titanium dioxide

CAS Number:

13463-67-7

### 4. FIRST AID MEASURES

Eye Contact: Rinse with plenty of water.

Inhalation: Move to fresh air. Consult a doctor after significant exposure.

Skin Contact: Wash with mild soap and warm water.

Ingestion: Drink water as a precaution.

### 5. FIRE FIGHTING MEASURES

Extinguishing Media:



water mist



CO<sub>2</sub>



foam



dry powder

(✓ recommended      × must not be used)

Special Exposure Hazards: No special hazards. Titanium dioxide pigments do not burn.

Special Fire Fighting Precautions: No special precautions. Titanium dioxide pigments do not burn.

### 6. ACCIDENTAL RELEASE MEASURES

Personal Protection: See section 8. Control dust. Provide sufficient ventilation.

Disposal Considerations: See sections 8/13.

Measures for Containing Spillage: Cover or dilute with inert material (eg sand).

Measures for Cleaning up: Sweep or vacuum up, avoiding formation of dust clouds.

Environmental Precautions: Advise local river or water authority if spillage has entered water course or sewer.

### 7. HANDLING AND STORAGE

Store at room temperature (15-25°C recommended) in original resealed containers and protected from direct sunlight and moisture. Use LEV throughout handling processes.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

When handling dry powder, local exhaust ventilation (LEV) is essential to minimise worker exposure. UK limits (long term total dust and respirable dust) on exposure are published annually in Guidance Note EH40, HSE.

Dust: Long term total dust: 10 / 8 hr TWA

Respirable dust: 4 / 8 hr TWA

Respiratory Protection: FFPI Nuisance dust filters



goggles



aprons, boots



nitrile gloves (2 mm)  
(Breakthrough NK)



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9. **PHYSICAL & CHEMICAL PROPERTIES**

**Melting / Softening Point:** > 1800°C  
**Boiling Point:**  
**Flash Point:** NA  
**Density:** 3.9 g.cm<sup>-3</sup>  
**Bulk Density:** approx. 600 kg.m<sup>-3</sup>  
**Solubility in Water:** Insoluble.  
**Solubility in Oil:** Insoluble.  
**pH:**  
**Partition Coefficient (n-octanol-water):** NK  
**Flammability:** NA  
**Explosive Properties:** NA  
**Oxidising Properties:** NA  
**Evaporation Rate:** NA  
**Appearance:** White powder.  
**Odour:** None.

10. **STABILITY AND REACTIVITY**

**Stability:** Excellent.  
**Conditions to avoid:** None known.  
**Materials to avoid:** None known.  
**Hazardous Decomposition Products:** None.  
**Hazardous Exothermic Reaction:** NA

11. **TOXICOLOGY**

**General Comments:**  
**Skin Contact:** Non irritant.  
**Eye Contact:** Brief exposure does not cause eye irritation.  
**Ingestion:** LD<sub>50</sub> Rat > 15000 mg/kg  
**Inhalation:** Prolonged exposure may give slight throat irritation and cough.  
**Any Further Data:** Sensitization : none known. Does not show carcinogenic, teratogenic or mutagenic effects in animals.

12. **ECOLOGY**

**General Comments:** Ecological/environmental effects are not known.  
**Bacteriological Toxicity :**  
**Fish Toxicity:** No information  
**Biodegradability and Persistence:** Not biodegradable. Insoluble - can be removed by filtration or sedimentation.  
**Bioaccumulative Potential:**  
**Mobility:**  
**Other Effects:**

13. **DISPOSAL**

National or regional laws will determine the appropriate method of disposal. It is recommended that you refer to your local authority.

14. **TRANSPORT INFORMATION**

**UN Number:**  
**IMDG (sea):**  
**ADR (road):**  
**General:** Not classified as dangerous for transport purposes.

**RID (rail):**  
**ICAO/IATA (air):**  
**Packaging Group:**

15. **REGULATORY INFORMATION**

**Labelling Information:**  
**World Regulations:**

16. **OTHER INFORMATION**

**R-phrases:**

\* **S-phrases:** S22 - Do not breathe dust

\* Although in February 2006 IARC concluded that "there is inadequate evidence in humans for the carcinogenicity of titanium dioxide", because IARC guidelines require a classification "possibly carcinogenic to humans" if two or more independent studies in one species carried out at different times or different laboratories show evidence of tumours, this classification is now raised from Group 3 to Group 2B. Dust and its possible association with pulmonary inflammation and cancer is the only concern. There are no current concerns with ingestion or skin exposure.

**Non Statutory Recommendations:**

**Source Information:** SHE Alert No. 138 June 2006

**Notes:** NA (not applicable), NK (not known), NR (not relevant). \* (revised since last issue).