

Artists' Materials Since 1859

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## Titanium White Pigment (TNL 865010 & 861010)

### 1. Identification

Titanium White Pigment.

### 2. Composition/Information on Ingredients

Titanium dioxide (type R2 DIN 55912, sheet 1). CAS No. 1317-80-2.

### 3. Hazards Identification

Hazard warning not required.

### 4. First-Aid Measures

Eye contact	Flush eyes with generous amounts of water for at least 15 minutes. Seek medical attention.
Skin contact	Wash with mild soap and water. Removed contaminated clothing. If irritation develops seek medical advice.
Inhalation	Remove to fresh air. Seek medical attention.
Ingestion	Seek medical attention.

### 5. Fire-Fighting Measures

Extinguishing media	No restriction.
Protective equipment for Fire-fighters	Self-contained breathing apparatus.

### 6. Accidental Release Measures

Sweep up avoiding the creation of airborne dust particles.

### 7. Handling and Storage

Store in dry containers and protect against fire and explosion. No special measures required.

## 8. Exposure Control and Personal Protection

Eye protection is required and respirator equipment with type P1 filter necessary if the MAK value (6 mg/m<sup>3</sup>) is exceeded. When handling observe the usual precautionary measures for dust-forming products.

## 9. Physical and Chemical Properties

Physical form	Solid
Colour	White
Odour	None
pH of aqueous solution	approx. 7 (at 20°C)
Boiling point	Not applicable
Melting point	> 1000°
Viscosity	Not applicable
Flash point	Not applicable
Flammability solid/gas	Not flammable at room temperature. Will burn in fire conditions.
Autoflammability	Not determined
Explosive properties	None
Oxidising properties	None
Vapour pressure	Not applicable
Density	4.1 g/cm <sup>3</sup> at 20°C
Water solubility	Insoluble
Other solubility	Not determined
Bulk density	approx. 600 kg/m <sup>3</sup> at 20°C
Partition coefficient octanol/water	Not determined
Explosive limits	Not determined

## 10. Stability and Reactivity

The product is stable under normal working conditions.

## 11. Toxicological Information

Acute toxicity:  
LD<sub>50</sub> oral, rat: > 10000 mg/kg

According to the present state of knowledge iron oxides pigments are physiologically harmless; under extreme conditions, however, mechanical action arising from eye contact (action of dust) may cause slight temporary irritation of the mucosa.

(Tests at the Institute for Toxicology of Bayer AG)

## 12. Ecological Information

Acute fish toxicity: Golden orfe (*Leuciscus idus*) LC<sub>50</sub> : 1000 mg/l

Acute bacterial toxicity:

No harmful effects on *Pseudomonas Fluorescens*: > 5000 mg/l

No harmful effects on *Escherichia coli*: > 5000 mg/l

(Examinations made at the Institute of environmental analysis and evaluation of Bayer AG).

## 13. Disposal Conditions

As this product is practically insoluble in water, it is separated in almost any filtration and sedimentation process.

Water pollution class (WGK): 0 – not generally hazardous to water.

WGK = Classification in accordance with the German Water Resources Act.

Examine possibilities for re-utilisation.

May be disposed of in approved landfills provided local government regulations are observed.

European Waste Catalogue (EWCC) code: 061199/060401.

## 14. Transport Information

UN number No data available.

IMDG code/class No data available.

ICAO/IATA (air) class No restriction.

RID/ADR class No data available.

ADNR class No data available.

## 15. Regulatory Information

No labelling is required in accordance with the EEC directives.

MAK value: 6 mg/m<sup>3</sup>, measure as the alveolar aerosol content.

## 16. Other Information

*The information provided on this sheet is based on our knowledge of the product concerned at the date of issue. It is provided in good faith. Users should also bear in mind that risks may arise when a product is put to uses other than those for which it is destined.*