

Material Safety Data Sheet

According to Regulation (EU) No. 1907/2006, Annex II,

According to Regulation (EU) No. 1272/2008,

Amended by REGULATION (EU) No 453/2010

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION OF THE COMPANY/UNDERTAKING

Product Name: Titanium Dioxide

Brand: Anhao

Company: ANHAO INDUSTRIAL(SHANGHAI)CO.,LTD

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Titanium oxide(Tio2)

Formula: Tio2

Molecular Weight: 79.87

CAS NO: 13463-67-7

EC No: 236-675-5

3. HAZARDS IDENTIFICATION

Not a hazardous substance according to 67/548/EEC and REGULATION (EC) No 1272/2008.

4. FIRST AID MEASURES

In case of inhalation:

Move to a fresh air atmosphere. In case of persistent symptoms, consult a doctor.

In case of skin contact:

Wash off with soap and plenty of water.

In case of eye contact:

Rinse immediately with plenty of water. If irritation persists, seek medical attention.

In case of ingestion:

No adverse health effects anticipated by this route, however, in the event of ingestion, increase intake of liquid in order to flush from the body. In case of persistent symptoms, consult a doctor.

5. FIRE-FIGHTING MEASURES

Extinguishing Methods:

Use any media appropriate for combustible material in the area.

Specific risks:

Product is inert, non flammable and non combustible.

Special intervention methods:

Product is inert, non flammable and non combustible.

Protection of fire-fighters:

Usual protective equipment for fire fighters.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid generation of dust. Ensure adequate ventilation. Wear personal protective equipment.

Environmental Precautions:

Prevent run-off from entering ground, storm sewers and ditches which lead to natural waterways.

Cleaning Methods:

Use any feasible mechanical means (e.g. vacuum, sweeping), but avoid dusting during clean-up. The product can cause slippery conditions if wet. Even at low concentration, the product renders the discharge in liquid effluent highly visible.

7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid raising and breathing dust, observe good industrial hygiene practice for chemical handling. Handling systems and areas should be operated to minimise exposure to dust.

Conditions for safe storage:

Storage condition: Stored in a cool, dry, ventilated area.

Further information: Use original container. Protect against physical damage; observe all warnings and precautions listed for the product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls

Appropriate engineering controls: Production facilities should be provided with running drinking water, local and general aspiration system In facilities, where titanium dioxide is handled, eating and food storage are not permitted.

Protective equipment

Respiratory protection: A respirator must be used if the dust concentration is likely to exceed the occupational exposure limit. An approved dust respirator is recommended as appropriate depending on dust levels and other workplace factors.

Hand protection: For prolonged or repeated contact use protective gloves.

Eye protection: Wear dust-proof goggles.

Hygiene Measures: General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Powdered solid

Colour: White

Odour: Odourless

Odour threshold: Not available

pH: 6.5-8.0
Melting point/range (°C): Not determined
Boiling point/range (°C): Not determined
Flash point (°C): Not applicable
Ignition temperature (°C): Not applicable
Upper/lower flammability/explosive limits: Not determined
Water solubility (g/l): Practically insoluble
Decomposition temperature: Not applicable
Viscosity, dynamic (mPa s): Not applicable
Explosive properties: Not applicable
Oxidising properties: Not applicable

10. STABILITY AND REACTIVITY

Reactivity: The substance is stable under normal storage and handling conditions.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: Under normal conditions, not hazardous reactions will occur.

Conditions to avoid: Strong acids and alkali.

Incompatible materials: None reasonably foreseeable.

Hazardous decomposition products: None in normal or expected use.

11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

Non-human toxicological data: Not available

Method: Not available

Dosis: Not available

Routes of administration: Not available

Results: Not available

Absorption: Not available

Distribution: Not available

Metabolism: Not available

Excretion: Not available

Acute toxicity

LD50(Oral, Rat) : > 10.000 mg/kg

LD50(Dermal Rabbit): Not applicable

LC50(Inhalation, Rat): Not applicable

Skin corrosion/Irritation: Not irritating

Serious eye damage/irritation: Not irritating

Sensitization: Not classified

Carcinogenicity: Not classified

12. ECOLOGICAL INFORMATION

Persistence and degradability: no data available

Ecotoxicity:

Acute toxicity	Time	Species	Method	Evaluation	Remarks
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LC50	1000 mg/l	48h	Fish(Leuciscus idus)	OECD 203	N/A	N/A
EC50	2.0 mg/l	96h	Daphnia magna(Scenedesmus obliquus)	OECD 202	N/A	N/A
EC50	N/A	96h	Algae	OECD 201	N/A	N/A

Further information on ecology: No data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

The product is not hazardous for waste dumping in industrial or sanitary retention ponds. Disposal of the waste in correspondence with the state and local regulations.

Product / Packaging disposal:

Contaminated packages are not considered hazardous. If recycling is not practicable, dispose of in compliance with local regulations.

14 .Transport information

Land transport(ADR/RID): Not regulated

Sea transport(IMDG): Not regulated

Air transport(ICAO/IATA): Not regulated

15. REGULATION INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

Relevant information regarding authorization: Not applicable

Relevant information regarding restriction: Not applicable

Other EU regulations: Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

Other National regulations: Not applicable.

16. OTHER INFORMATION

Indication of changes: Version 1.1 Amended by EU No 453/2010

Relevant R- phrases (number and full text): Not applicable.

instructions: Not applicable.

Further information:

This information is based upon the present state of our knowledge. This MSDS has been compiled and is solely intended for this product.

Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.