

Foshan Zontai Titanium Dioxide Limited

Safety Data Sheet for Chemical Products
(SDS)

1. Identification of The Substance And The Company

Types: CR-702

Molecular formula: TiO_2

Company: Foshan Zontai Titanium Dioxide Limited

Address: Da lang industry Park, shunde distric, foshan city,
guangdong province

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2. Hazards Identification

Classification of pure substances and mixtures: According to the GHS standard,
The product does not belong to hazardous
chemicals, do not need to be classified.

Label elements and precautionary statements: According to the GHS standard,
The product does not need to add the hazard
warning label, Other hazards but not included
in the classification.

Inroads: inhalation, ingestion, contacting

Perniciousness to health: Temporary inhaling TiO_2 may irritate the person's nose,
the throat and the lungs, causing cough and difficulties in breath. Long
period inhaling will make the situation worse. Eye contact will make the
person tear and pain or make the sight blurred. It has no corrosion and
irritation to the human's skin which will not absorb the product. There is
no evidence showing the product could cause toxic symptoms and it is
not a carcinogenic substance. It is a non-toxic and harmless material in
normal industry applications.

Harmfulness to the environment: no evidence

Dangerousness causing fire or explosion: no evidence

3. Ingredient/ Composition information

Main composition: mixture

Hazardous components within the meaning of EEC directive
67/548 and CLP regulation and related classification.

composition information

Name of chemical	CAS Number	Concentration (%)
Titanium dioxide	13463-67-7	95-98
Silicon dioxide	7631-86-9	0.3-0.8
Aluminum hydroxide	21645-51-2	1.0-3.0

Note: Above data are based on dry powder. Please refer to the company's brochure for detailed physical and chemical properties.

4. First Aid Measures

Skin contact: Wash off with water (Soapy water is better).

Eye contact: Rinse with a lot of water, ensuring thoroughly washed. If necessary, send the victim to the doctor.

Inhalation: Remove the victim to open area. If necessary, send the victim to the hospital.

Ingestion: No special harmfulness mentioned. If necessary, send the victim to the

5. Fire-fighting Measures

Characteristics of danger: n/a

Dangerous burning products: n/a

Fire-fighting methods and fire extinguishing agent: no limits for using what kind of fire extinguisher. Use suitable fire extinguishing chemicals for specific area.

Notice for fire-fighting: The product itself does not burn. Use extinguishing measures which are appropriate to local circumstances and the surrounding environment.

6. Accidental Leakage Measures

Emergency Action: Avoid breathing in dust.

Personal protection: Wear protection face guard.

Environmental precautions: Take measures to prevent further leakage or overflow according to the safety regulations. And make sure not to pollute the water source.

Cleaning-up methods: Collect the dust using vacuum cleaner, avoiding the dust flying, and treating the dust as the residues.

7. Handling and Storage

Handling

Safety for handling: Avoid inhaling, ingesting and contacting the product.
 Personal protection: Wear protecting face guard and respirators, making the inhaling and contacting the dust to a minimum.

Storage

Basic requirement for storage: The product should be stored in dry and ventilating area. Product is packed in bags which are put on 1000-kilo transport pallet on which another 1000-kilo pallet could be put but no more. The bags should be well protected from damaging.

Storage limit:n/a
 Fire and explosion precautions: inapplicable
 Packing considerations: No special mention.

8. Exposure Control/Personal Protection

Exposure Control

Material	Max. concentration (mg/m ³)	Average concentration (mg/m ³)		Regulations
		Total dust	Dust breathed out	
TiO ₂	-	8	-	GBZ2.1-2007
TiO ₂	10	-	-	GB 11522-89

Engineering Measures: Use sufficient ventilation to keep employees exposure below recommended limits.

Personal Protection

Protection to the breathing system: When facing concentrative dusts, employees should wear specially designed dust protection respirators.
 Eye protection: Use safety glasses with side-shields.
 Body protection: n/a
 Hand protection: Wear suitable gloves.
 Skin protection: Usually unnecessary but if long period contacting the powder, the person who has an allergy to powder should use skin care cream.
 Other protection: n/a
 Other attention: Wash hands after working with the product.

9. Physical And Chemical Properties

Appearance and characteristics

Status: powdered solid
Color: white
Odor: no
pH: inapplicable
Smelting point: about 1830°C
Boiling point: 3000°C
Relative density: 4.1
Relative vapor density: inapplicable
Saturated vapor pressure: inapplicable
Heat of combustion: inapplicable
Critical temperature: inapplicable
Critical pressure: inapplicable
Distribution fact of octyl alcohol/water: inapplicable
Flash point: n/a
Ignition temperature: inapplicable
Up-limit of explosion: inapplicable
Lower-limit of explosion: inapplicable
Dissolubility: not dissolve in water. inapplicable to other solvents.
Ratio of vaporization: inapplicable
Main applications: Used in plastic color masterbatch, plastics pipe and so on.

10. Stability And Reactivity

Stability: stable
Conditions to avoid contacting: inapplicable
Materials to be avoided: none
Harmfulness of polymerization: impossible to happen
Products of decomposition: inapplicable
Incompatibility with other materials: no suitable prediction

11. Toxicological Information

Acute toxicity: n/a
Semi-acute and chronic toxicity: n/a
Irritation: slight irritation to skin and middling irritation to eyes
Possibility to cause allergic reaction: n/a
Possibility of mutation: n/a
Possibility to cause deformity: n/a
Carcinogenic possibility: It was reevaluated as pertaining to Group 2B: "possibly carcinogenic to humans" by International Agency for Research on

Cancer (IARC). The reevaluation was based on inadequate evidence in humans and sufficient evidence in experimental animals for carcinogenicity of TiO₂. The premise of the conclusion obtained from sufficient evidence to animals is based on long period contacting and inhaling high concentrate dyes and superfine TiO₂ particles.

Other issues: no important acute toxicity data available

12. Ecological Information

Ecotoxicity to environment: n/a

Biodegradation: inapplicable

Abiogenous decomposition: inapplicable

Bioaccumulation: inapplicable

Other harmful affects: n/a

13. Waste Disposal Considerations

Not classified as dangerous product according to transport regulations.

15. Regulatory Information

Nation's regulations: GB 11522-89 "Hygiene Standard of TiO₂ Dust in The Workshop"

Inventory status: The chemicals in this product are listed on the US TSCA Chemical Substance Inventory and the Canadian Domestic Substances List.

Chemical Safety Assessment: No

16. Other Information

References: inapplicable

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Authorized by: Enterprise management Department of CITIC Titanium

Note for editing: It is according to relative regulations and standards to modify the original edition.

Other notice: The product may not be directly added to food or pharmaceuticals and is not suggested to be used in medical applications. For further information, please contact the Sales Department and technical personnel of the Company.

Please refer to brochures of all types products for their physical and chemical properties or contact our sales representatives or contact the company by communication means.

The present SDS is only suitable for above-mentioned types of products and has nothing to do with other materials or other combined applications in any process. The information is only used for safely operating, handling, storing, transporting and treating the products and it is not used for product quality guarantee.