



Material Safety Data Sheet

CHTi "TIOXHUA" (all types)

1. Identification

Product Identifier	CHTi "TIOXHUA" Titanium dioxide Rutile (all types)
CAS Number	13463-67-7
Chemical Formula	TiO ₂
Synonyms	R-216,R-2196+, R-2196,R-217,R-213,R-2219,R-219
Product Name	"TIOXHUA" is CHTi's registered brand name.
Manufacturer	ANHUI GOLD STAR TITANIUM DIOXIDE TRADING COMPANY LIMITED
Marketing & Sales Center	9TH BULIDING NO.1 XINHUA ROAD,CI HU ECONOMIC DEVELOPMENT ZONE,MA'AN SHAN CITY,AN HUI PROVINCE,CHINA
Email	Chti@sinotio2.com
Telephone	+86-510-85016667
Emergency Call	+86-510-85016667
Recommended use	White pigment for applications in coatings, inks, fibers, plastics, paper.
Revision Date	18-February-2020

2. Composition

Mixture

Chemical Name	CAS Number	Concentration (%)
Titanium dioxide	13463-67-7	90-97
Silicon dioxide	7631-86-9	0-5
Zirconium dioxide	1314-23-4	0-3
Aluminum hydroxide	21645-51-2	0-5

3. Hazards identification

Emergency overview	May cause eye, skin and respiratory tract irritation.
GHS classification	Not classified.
Hazard statement	The product does not meet the criteria for classification.
Precautionary Statement	
Prevention	Observe good industrial hygiene practices.
Response	Flush skin thoroughly with fresh water.
Storage	Store in a sealed container.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Physical and chemical hazards	No unusual fire or explosion hazards noted.
Health hazards	Dusts or powder may irritate the respiratory tract, skin and eyes. Frequent inhalation of fume/dust over a long period of time may



	increase the risk of developing lung diseases although epidemiological studies among titanium dioxide workers could not demonstrate this.
Special hazards	None.
Cancer	No carcinogens such as IARC, NTP, OSHA or ACGIH are contented when the dust concentration is or above 0.1%.

4. First Aid Measures

Skin contact	Take off contaminated clothes and flush skin with fresh water.
Eye contact	Immediately rinse eyes with fresh running water. Do not rub. Get medical attention if irritation develops or persists.
Inhalation	Move to fresh air. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly. If ingestion of a large amount does occur, call medical center immediately.

5. Fire-Fighting Measures

Extinguishing media	Use fire -extinguishing media appropriate for surrounding materials.
Specific hazards	No unusual fire or explosion hazards noted.
Special fire-fighting measures	None
Advised protective equipment for firefighters	None

6. Accidental Release Measures

Personal precautions	Wear masks and working suits while operating.
Environmental precautions	No flushing into underground running water systems.
Cleaning advice	Collect released powder and dispose residues in accordance with local authority requirements. Avoid dust and powder.

7. Handling and Storage

Handling precautions	<ol style="list-style-type: none">1. Operate in a closed area with good ventilation.2. Workers must be officially trained to operate according to proper guidelines.3. Respiratory masks, mouth covers, protective goggles and protective gloves are advised to wear by workers while handling.4. Avoid dust and do not contact with acid.5. Handle paper bags with great care.6. Emergency equipment should be in place in case of any accidental releases.
Storage Precautions	<ol style="list-style-type: none">1. Store in dry and well-ventilated places without exposure to direct sunlight. Product Pallets with 1 ton weight in one stack should not exceed two layers;



- Composite bags with 25kg net weight each in one stack should be control within 15 bags;
2. Keep away from water or moisture;
 3. Keep away from fire or heat;
 4. Avoid contaminations with acidic materials. Mixed storage is forbidden;
 5. Suitable collectors should be in place in case of any leakage.

8. Exposure Control

Engineering Control Measures	Operate in a closed space with good ventilation.
Occupational Exposure Limits	Average Density in eight hours: $8\text{mg}/\text{m}^3$ Average Density in short time period: $10\text{mg}/\text{m}^3$ Highest Concentration allowed: $10\text{mg}/\text{m}^3$ Biological Indicators: None
Personal Protection Equipment	Respiratory protection: Air-purifying respirators Eye protection: Chemical safety goggles Hands protection: Cotton or canvas gloves Skin and body protection: Common protective clothing
卫生措施	Remove and clean contaminated clothing; No smoking or eating in workplace; Wash hands and face thoroughly after operation; Keep workplace clean.

9. Properties

Appearance	Powder
Color	White
PH Value	6.0~9.5
Decomposition Temperature	N.A.
Autoignition Temperature	N.A.
Vapor Pressure	N.A.
Density	3.7~4.2KG/L
Shape	None
Odor	None
Boiling Range	N.A.
Flash Point	N.A.
Explosion Limit	N.A.
Vapor Density	N.A.
Solubility	Insoluble

10. Reactivity

Stability	Stable under normal operating conditions.
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Special hazardous reactions	None
Conditions to avoid	None
Substances to be avoided	None
Hazardous decompositions	None

11. Toxicity Data

Acute Toxicity	Inhalation of dust may cause eye, skin or respiratory tract irritation.
Local Effects	None
Sensitization	None
Chronic or long-term toxicity	None
Special effects	None

12. Ecological Data

Potential Environmental Effects/ Environmental Distribution	None
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13. Disposal Considerations

Disposal Method	<ol style="list-style-type: none">1. Place in appropriate containers and dump to legal garbage collecting area;2. Collect leakage with proper containers with lid, and dispose appropriately. Wash residues on the ground. Discharge after water treatment;3. Dispose in accordance with local laws and regulations.
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14. Transportation

International Transportation Regulations	IMDG Code (2014) . IATA DGR (57 th Edition)
U.N. NO.	None
Domestic Transportation Regulations	CNAS IB0071
Special Delivery Methods and Precautions	IMO IMDG Code handle type, IATA DGR handle type, can be all according to the nonrestrictive conditions of goods. Packaging must be intact before transport. Avoid leakage, collapse, falling, or damages during transporting. No contact with acidic material. No Exposure to sunlight, rain, or high temperature.

15. Laws and Regulations

Laws and Regulations	The Hygienic Standard of TiO ₂ Powder in Workshops (GB 11522-89) regulates the maximum density allowed in the air of workplaces and specifies related test methods.
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16. Other Information

References	None
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NPCA-HMIS Grade

Health: 1

Ignitability: 0

Reactivity: 0

Personal protective measures based on different conditions.

Additional information: No application into any medical devices implanted permanently into human body or other medical areas.

Disclaimer

The above information is offered free solely to provide possible suggestion. And this information shall not establish any legally valid contractual relationship or constitute a guarantee for any specific product features.