

YIBIN TIANYUAN HAIFENG HETAI COMPANY LIMITED

TITANIUM DIOXIDE SDS

Product name: TYR-588

The SDS compiled referring to the GB/T16483-2008.

Version A, revision 0 in 2019.

Compilation time: June-2019

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product name: TYR-588

Synonyms: Titanium dioxide

CAS NO:13463-67-7

Molecular formula: TiO₂

Molecular weight: 79.9

Company name: Yibin Tianyuan Haifeng hetai Company Limited

Address: Yangchun Industrial Park, Jiang'an County, Yibin City, Sichuan Province

Registered trademark: “”

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Recommended Use: Important white pigment in coating, plastic, bar, ink, papermaking, etc.

Product Warranty: Under the product storage condition, there is 36 valid months from the date of manufacture.

Section 2: HAZARDS IDENTIFICATION

Hazards category: inhalation hazards

Invasion hazards: May be harmful if swallowed and enters airways.

Health hazards: May cause damage to organs through prolonged or repeated exposure.



Environment hazards: Dust effects and water pollution effects, but it will not be toxic to aquatic organisms;

Blast hazards: Non-combustible.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition	Content %	CAS No.
TiO ₂	94.0-95.5	13463-67-7
Al ₂ O ₃	2.5-3.5	1344-28-1
ZrO ₂	0.45-0.70	1314-23-4

Section 4: FIRST AID MEASURES

Skin contact: Remove contaminated clothing and wash skin with clean water.

Eye contact: Lifting the eyelids and flush eyes with clean water or saline, get medical advice.

Inhalation: Remove to fresh air.

Ingestion: Induce vomiting through drinking enough warm water. Get medical advice.

Section 5: FIRE FIGHTING MEASURES

Hazardous characteristics: No special combustion and explosion characteristics.

Hazardous combustion products: Unknown for natural decomposition product.

Extinguishing method: Remove the container to open space, and conventional extinguishing media is applicable.

Section 6: ACCIDENTAL RELEASE MEASURES

Emergency procedures: Isolated the spill area with restricted access. Recommend the emergency responders to wear dust protective mask (full face mask) and appropriate clothes. Avoid raising dust. Sweep up carefully, put it in the bag and remove to the safe place. If large spill, covered with plastic cloth and canvas. Collect and recycle or transfer to waste disposal site.

Section 7: HANDLING AND STORAGE

Advice on safe handling: Closed operation with local exhaust ventilation. Operators must be professionally trained and strictly follow the operating procedures. It is advised to wear self-inhalation filter type dust mask, safety goggles and general working protective gloves. Avoid generation of dust. Avoid contacting with acid. Lightly load and unload during handling to avoid damage to the packaging. Equipped with spill emergency treatment equipment.

There may be harmful residues in the empty container.

Storage attention: Store in a cool and ventilate warehouse. Keep it away from fire and heat. Store separately from the acid, avoid mixing. There should have suitable materials to collect the spill in storage place.

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Occupational exposure limits:

China GBZ2-2007(mg/m³):8

Monitoring method: Monitoring according to the GBZ159 *Specifications of Air Sampling for Hazardous Substances Monitoring in the Workplace* and GBZ160 *Methods for Determination of Carboxylic Acids in the Air of Workplace*. It can also be performed by recognized methods at home and abroad when there is no regulations mentioned above!

Engineering control: Closed operation, local exhaust ventilation.

Respiratory protection: It is recommended to wear self-inhalation filter type dust mask when there is a high dust level in the air.

Eye protection: Wear chemical safety goggles

Body protection: Wear appropriate protective clothing.

Hand protection: Wear appropriate protective gloves.

Other protection: Wash work clothes in time. Pay attention to personal hygiene.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Powder, no odor.

pH: 6.0-8.5

Melting point: 1560°C

Boiling point: No data available

Relative density (water=1): 4.1

Relative steam density(air=1): No data available

Saturated vapor pressure (KPa): No data available

Heat of combustion (kJ/mol): Not applicable

Critical temperature (°C): Not applicable

Critical pressure (MPa): Not applicable

Log Kow of octanol/water partition coefficient: No data available

Flash point (°C): Not applicable

Ignition temperature (°C): Not applicable

Upper explosive limits% (V/V): Not applicable

Lower explosive limits% (V/V): Not applicable

Solubility: Insoluble in water, dilute alkalis, dilute acid; Soluble in hot sulfuric

acid, hydrochloric acid and nitric acid.

Main application: It is an important white pigment.

Section 10: STABILITY AND REACTIVITY

Stability: Chemically stable.

Incompatible materials: Strong acid

Conditions to avoid: High temperature

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity: LD50: No data available

LC50: No data available

Skin irritant or corrosion: May cause dry skin without corrosion if direct contact for a long time.

Eye irritant or corrosion: Dust irritant, no corrosion.

Respiratory or skin sensitization: No information

Reproductive toxicity: No information

Specific Target organ toxicity – single exposure: No information

Specific Target organ toxicity – repeated exposure: No information

Inhalation hazards: May cause asphyxia if inhaled too much.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Fugitive spill may raise dust affecting the environment.

Biodegradability: No information

Non-ecological degradation product: No information

Bio-concentration or Bio-accumulation: No information

Other adverse effects: No information

Section 13: DISPOSAL CONSIDERATIONS

Waste property: residue titanium dioxide or paper/plastic packaging bag.

Disposal methods: Refer to the state and local regulations before disposal.

Recovery and disposal through safe landfill or by the certificated company.

Section 14: TRANSPORT INFORMATION

Dangerous Goods Code: No information

UN number: No information

Transport precautions: The packaging should be complete when shipping and the loading should be secure. During transportation, ensure that the container does not leak, collapse, fall, and damaged. It is strictly forbidden to mix with acids. During transportation, it should be protected from exposure, rain and high temperature.

Section 15: REGULATORY INFORMATION

Regulatory information: These regulations, such as *The Regulations of Safe Management Regarding Dangerous Chemicals* and its *Implementing Rules, Regulations on the Safe Use of Chemicals in the Workplace*, have made the rule for dangerous chemicals on safe use, production, storage, transport, loading and unloading, etc. *Hygienic standard for titanium dioxide dust in the air of workplace* (GB11522-89) has stipulated the max allowable concentration and detection method for the material. Local waste disposal act.

Section 16: OTHER INFORMATION

No other information.