

MATERIAL SAFETY DATA SHEET

Composite Ti for Stage Effect HC8200

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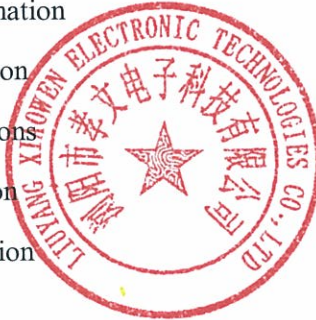
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SECTION 1: Identification of the substance and of the company

Product name	Composite Ti for Stage Effect HC8200	
Manufacturer	Name	Liuyang Xiaowen Electronic Technologies Co., Ltd.
	Address	66#, FangguBuxing Street, Liuyang City, Hunan Province, China.
	Tel	+86-731-83833068
	Fax	+86-731-83833069
	ZIP No.	410300
	E-mail	sales@showven.com
Emergency telephone number	+86-731-83833068	

Section 2: Composition/information on ingredients

Composition:

Chemical name	In % by weight	CAS No.	Dimension	Molecular Formula
Titanium (Ti)	80	7440-67-7	180~300um	Ti
Zirconium (Zr)	20	7440-32-6		Zr

Abbreviation: CAS No. is chemical Abstract Service Registry Number.

Section 3: Hazards identification

Fatalness grade	In accordance with the Catalog of Hazardous Chemicals (2015) of China, the material is not a dangerous good.
Invasion Route	Inhalation.
Health hazards	There is no report of composite Ti for stage effect in industry.
Environmental hazards	No known significant effects.
Burn & burst danger	The material is not easy to burn.

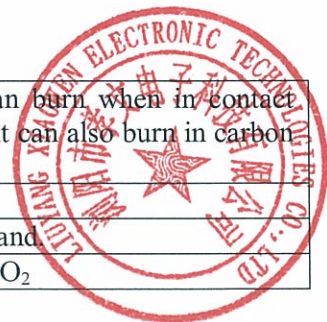
Section 4: First aid measures

Skin contact	Wash skin with plenty of soap and water. Remove contaminated clothing.
Eye contact	Flush eyes with water, lifting upper and lower eyelids, for 20 minutes. Get medical attention.
Inhalation	Remove victim to fresh air give oxygen if Breathing is difficult.
Ingestion	Give 1-2 glasses of milk or water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person.

Section 5: Firefighting measures

Hazard characteristics	Composite Ti for stage effect can burn when in contact with open fire and high heat and it can also burn in carbon dioxide and nitrogen gas.
Harmful combustion product	Titanium
Suitable extinguishing media	Use dry extinguishing agents or sand.
Unsuitable extinguishing media	Water, foam air extinguisher or CO ₂

Section 6: Accidental release measures



Release Measures	Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust.
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Section 7: Handling and storage

Precaution for safe handling	Operator must undergo special training; strictly comply with the operating procedures. Recommend the operator to wear self-absorption filter dust masks, chemical safety glasses and chemical gloves. Workplace must be away from fire and heat source. Provide sufficient ventilation to maintain concentration at or below TLV. Avoid producing dust. Avoid contact with acids. Store in a cool dry place in a tightly sealed container.
Conditions for safe storage	Store in a cool, ventilated warehouse. Store away from fire and heat source. Should be stored separately from acids and avoid mixed storage. Ventilation systems must Provide sufficient ventilation to maintain concentration at or below TLV. The storage area should be equipped with appropriate material to contain leakage.

Section 8: Exposure controls/personal protection

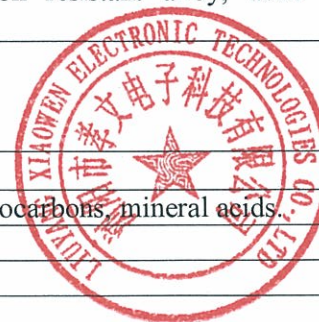
MAC (mg/m ₃)	OSHA PEL: 5 mg/m ³ AS ZIRCONIUM ACGIH TLV: 5 mg/m ³ AS ZIRCONIUM
Monitoring method	Two xylenol orange colorimetry
Engineering control	Generally don't need special protection, but need to prevent dust hazards.
Respiratory protection	NIOSH approved dust/mist respirator.
Eye protection	Wear chemical safety glasses.
Body protection	Wear general protective clothing.
Hand protection	Wear chemical gloves.

Section 9: Physical and chemical properties

Appearance and properties: Grey white grain	PH : N/A
Melting point(°C):1668 °C (Titanium)	Boiling point(°C):3277 °C (Titanium)
Relative density (water =1): 5.7	
Saturated vapor pressure (kPa):N/A	
Critical temperature (°C): N/A	Critical pressure (mPa): N/A
Ignition temperature (°C):N/A	Flash point (°C):N/A
Upper explosion limit (V/V): N/A	Lower explosion limit (V/V): N/A
Solubility: insoluble in water	
Uses: in the manufacture of nuclear industry and corrosion resistant alloy, used as metallurgical oxygen, and as a chemical reagent.	

Section 10: Stability and reactivity

Stability	Stable
Incompatibility:	Air, oxidizing agents, halogens, halocarbons, mineral acids.
Conditions to avoid	Open flame
Polymerization hazard	Will not occur
Decomposition product	None



Section 11: Toxicological information

Acute toxicity	LD50: no data LC50: no data
Acute poisoning	N/A
Chronic poisoning	N/A
Irritation	Mild irritation
Sub-acute and chronic toxicity	N/A
Mutagenicity	N/A
Teratogenicity	N/A
Carcinogenicity	N/A

Section 12: Ecological information

Eco toxicity	No data available
Biodegradability	N/A
Non biological degradation	N/A
Biological accumulation	N/A

Section 13: Disposal considerations

Property of waste	N/A
Waste disposal method	Dispose of in accordance with local, state and federal regulations

Section 14: Transport information

Dangerous goods No.	Not a hazardous material
UN No.	N/A
Packing mark	N/A
Packaging category	N/A
Packing	Galvanized drum with a large diameter seal cover and barrel lined with plastic film.
Transportation note	Keep away from the open flame and heat source. Railway transportation prohibits humping.

SECTION 15: Regulatory information

Dangerous chemicals safety management regulations (344 decree of the State Council, March 15, 2002), workplace safety use chemical regulations (423 decree of the labor department, 1996) and other laws and regulations provide the safe use, production, storage, transportation, loading and unloading of hazardous chemicals. Classification and Marking of Dangerous Chemicals (13690-92 GB) provide composite Ti for stage effect as class 5.14 (In case of fire and high temperature material can burn).

SECTION 16: Other information

Reference	
Filling time	Feb 15, 2015
Filling Department	Technology Department
Data audit department	Chief Engineer Office
Modification Description	Flammability of Composite Ti for stage effect relates to size. The smaller the size, the easier to burn. The size of 180-300 um composite Ti for stage effect is not easy to burn.

