

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY <i>(As Used on Label and List)</i> OxyFree 504 Serials Oxygen Absorber, Oxygen Scavenger 504A	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
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Section I

Manufacturer's Name Tianhua Tech Co. Ltd. China	Emergency Telephone Number 0086-25-84874101
Address <i>(Number, Street, City, State, and ZIP Code)</i> Suite 208, Bldg 8, 1 Youyihe Rd	Telephone Number for Information 0086-25-84874101
Nanjing, P.R.China, 210007	Date Prepared April 14, 2010
	Signature of Preparer <i>(optional)</i>

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% <i>(optional)</i>
Iron Powder (Fe)				
Active Carbon (C)				
Salt, Ca(OH)₂, CaCO₃				
Vermiculite granule				

Section III - Physical/Chemical Characteristics

Boiling Point	2730 °C (Fe)	Specific Gravity (H ₂ O = 1)	Not Known
Vapor Pressure (mm Hg)	Not Known	Melting Point	Not Known

Vapor Density (AIR = 1)	Not Known	Evaporation Rate (Butyl Acetate = 1)	Not Known
Solubility in Water Insoluble for Iron powder and Active Carbon, Soluble for Salt			
Appearance and Odor Black powder, no odor			

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
Not Known	Not Known	Not Known	Not Known
Extinguishing Media CO₂ foam, water sprayer			
Special Fire Fighting Procedures None			
Unusual Fire and Explosion Hazards None			

Section V - Reactivity Data

Stability	Unstable	X	Conditions to Avoid Avoid to expose packet in the air for a long time. When the master bag is open, iron will start chemical reaction with oxygen in the air, and form iron oxide in the packet.
	Stable		
Incompatibility (<i>Materials to Avoid</i>) Strong acid			
Hazardous Decomposition or Byproducts Iron oxide			
Hazardous Polymerization	May Occur		Conditions to Avoid None
	Will Not Occur	X	

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? Yes	Skin? No	Ingestion? Yes
Health Hazards (<i>Acute and Chronic</i>)			

None toxic with Oral LD₅₀			
Carcinogenicity:	NTP? Not Known	IARC Monographs? Not Known	OSHA Regulated? NO
Signs and Symptoms of Exposure It may cause eye irritation/possible skin irritation upon prolonged direct contact with black powder, when the packet is broken and the contents are spilled.			
Medical Conditions Generally Aggravated by Exposure None			
Emergency and First Aid Procedures In case of eye contact, immediately rinse with water for 15 minutes. If swallowed, induce vomiting, drink water, and call physician immediately.			

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled Sweep off and place in disposal can.
Waste Disposal Method Dispose of in compliance with all federal, state and local laws and regulations.
Precautions to Be taken in Handling and Storing Store in dry place with cool, or normal room temperature.
Other Precautions Keep out of reach of children.

Section VIII - Control Measures

Respiratory Protection (<i>Specify Type</i>) OSHA approved respirators recommended if very large amount of black powder are spilled from packets.		
Ventilation	Local Exhaust No need.	Special No need.
	Mechanical (<i>General</i>) No need.	Other N/A
Protective Gloves No need.	Eye Protection If large amount of contents are spilled from packets, safety goggles recommended.	
Other Protective Clothing or Equipment No need.		
Work/Hygienic Practices No need.		