

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard
29 CFR 1910.1200.
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

It is our understanding that O-Buster products, oxygen absorbers, fall into a category of ARTICLE which does not require "Hazard Communication" according to the definition by 1910.1200 (b)(s)(iv) and (c) of CFR29, as far as packet will not be opened throughout of its use. However, we understand that there may be a case that the contents may come out from a packet by misuse or mishandling. We provide this MSDS so that our customers can understand the product properly and avoid mishandling.

IDENTITY (As Used on Label and List)	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.
O-Buster FT, TY & DR (Oxygen Absorber, Oxygen Scavenger)	

Section I

Manufacturer's Name Hsiao Sung Non-Oxygen Chemical Co., Ltd.	Emergency Telephone 886-4-2313-9686
Address (Number, Street, City, State, and ZIP) No. 2, Lane 102, Chung-Ching Road, 408 Taichung Taiwan	Telephone Number for Information 886-4-2313-9686
	Date Prepared Jan.9, 2004
	Signature of Preparer

Section II - Hazard Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)	
Iron Powder (Fe)	5 mg/m ³	10 mg/m ³	N/E	35~50	
Natural Zeolite	N/E	N/E	N/E	25~35	
Component A, B, C, D	N/E	N/E	N/E	N/E	

Section III - Physical/Chemical Characteristics

Boiling Point	2,730°C(Iron)	Gravity(H ₂ O=1)	21~30
Vapor Pressure	N/A(Not available)	Melting Point	1,535°C(Iron);1,240°C(Zeolite)
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate =	N/A
Solubility in Water	Insoluble (Iron); Insoluble (Zeolite)		
Appearance and Odor	Black and gray powder		

Section IV - Fire and Explosion Hazard Data						
Flash Point	N/A	Flammable Limits	LEL	N/A	UEL	N/A
Extinguishing Media	Cardboard box and packaging material may be burnt. Use carbon dioxide or water.					
Special Fire Fighting Procedures	None					
Unusual Fire and Explosion Hazards	None					

Section V - Reactivity Data					
Stability	Unstable	x	Conditions to avoid: When master bag is opened, iron will start reacting with oxygen in the air to form iron oxide inside the packet.		
	Stable				
Incompatibility (Materials to avoid)	Strong Acid, Hydrogen Peroxide				
Hazardous Decomposition or Byproducts	Hydrogen gas				
Hazardous Polymerization	May Occur		Conditions to Avoid		
	May not Occur	x			

Section VI - Health Hazard Data						
Routes of Entry:	Inhalation?	Yes	Skin?	No	Ingestion?	Yes
Health Hazards (Acute and Chronic)	Oral LD ₅₀ : Greater than 60,000 mg/kg ¹⁾					
Carcinogenicity:	NTP? Not Listed		IARC Monographs? Not Listed			
	OSHA Requested? No					
Signs and Symptoms of Exposure	N/A					
Medical Conditions (General Aggravated by Exposure)	N/A					
Emergency and First Aid Procedure	<p>Eye Contact: Irrigate immediately with water for at least 15 minutes.</p> <p>Skin Contact: Wash off with water.</p> <p>Swallowed: Drink two glasses of water and induce vomiting. Call a physician.</p> <p>Inhalation: Remove to fresh air. Call a physician.</p>					

Section VII - Precautions for Safe Handling and Use	
Steps to Be Taken In Case Material is Released or Spilled	Sweep up and place in disposal container.
Waste disposal Method	Burn out and follow Federal, State and Local Regulations.
Precautions to be taken in Handling and Storing	Store in cool and dry place.
Other Precautions	None

Section VIII - Control Measures				
Respiratory Protection (Specify Type) If large amount of contents are spilled, wear particle respirator.				
Ventilation	Local Exhaust	Needless	Special	Needless
	Mechanical (General)	Needless	Other	Needless
Protective Gloves	Needless			
Eye Protection	If contents are spilled, use goggles.			
Other Protective Clothing or Equipment	Needless			
Work/Hygienic Practices	Needless			

Although reasonable care has been taken in the preparation of the information contained herein, Hsiao Sung Non-Oxygen Chemical Co., Ltd. extends no warranties, make no representation and assume no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purpose or consequences of its use.

¹⁾ Japan Food Research Laboratories: Certificate No.: 41021512-002 (1988.2.19)