

-Material Safety Data Sheet-

MISO Plus (Ceramic Brackets)

Document #: HT/MSDS-003

Updated number Ver. 2

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Approved by: Jeong Goo Hwang

1. Product and Company Identification

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Company Name: HT Co., Ltd.	Product Grade/ Name: Miso Plus (Ceramic Brackets)
Address: Heungdeok Jungangno 120 U-Tower No 1313, Giheung-gu, Yongin si, Gyeonggi-do 446-908, Korea	Product Use: Orthodontic Brackets
City: Yongin	
Country: South Korea	
Telephone: +82-31-216-2080 E-mail: htdental@htdental.co	Indication of use: For Professional orthodontic treatment only

2. Composition/ information on ingredients

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Single Crystal Alumina (Al ₂ O ₃)	99.99%
This product not contains any hazardous ingredients as defined by KOTRIC (Korea Testing and Research Institute for Chemical Industry)	

3. Hazard Identification

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<p>Made by single crystal alumina which is widely used in dental field to be proved safe enough does not contain hazardous or volatile substance. Non-Hazardous for human body and health. However, subsequent operations such as brazing, cutting, grinding, heat treating, picking or processing in any other fashion may produce potentially hazardous dust or fume which can be come in contact with eyes.</p> <p>Possible symptoms of exposure to dust, fumes or gages.</p> <p>Acute: Irritation of eyes.</p>	
Potential Environmental Effects: NA	

4. First Aid Measures	
Routes of Exposure	First Aid Measures
Eye Contact	N/A
Skin Contact	N/A
Inhalation	N/A
Ingestion	N/A

5. Fire and Explosion Hazard data	
Flammable	N/A
Extinguishing Media	N/A
Special Fire Fighting Procedures	N/A
Unusual Fire & Explosion Hazards	N/A

6. Accidental Release Measures	
Containment Techniques	N/A
Evacuation Procedures	N/A
Precautions in Case of Spill	N/A
Special Instructions	N/A

7. Waste Disposal Method and storage	
Wasted Disposal Method: Properly dispose in accordance with federal, state and location regulation	
Precaution for Handling/Storage: Store in a cool and dry place. Do not place on heat or humidity.	

8. Special Protection Information	
Ventilation	Not required
Local Exhaust	N/A
Eye Protection	Recommend approved safety glasses when grinding etc.
Hand Protection	N/A

9. Physical and Chemical Characteristics	
Boiling Point	N/A
Melting Point	N/A
Freezing Point	N/A
Specific Gravity	N/A
Vapor Pressure(mmHg)	N/A
Appearance	Clear or Transparent
Odor	No order
No dangers for the human body and health	

10.Stability and Reactivity Data			
Stability? <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable		Hazardous Polymerization? <input checked="" type="checkbox"/> Will Not Occur <input type="checkbox"/> May Occur	
Incompatible Materials: None		Hazardous Decomposition Products: Carbon Oxides	
Component	%	ACGIH	OSHA PEL
Aluminum Oxide	99.99	10mg / m ³	15mg / m ³

11.Toxicological Information
<p>Acute Inhalation Effects: Inhalation studies have not been done on this material.</p> <p>Eye Effects: This material is classified as an irritant.</p> <p>Skin Effects: This material seems to be non-irritant.</p> <p>Acute Oral Effects: N/A</p> <p>Chronic Effects: N/A</p> <p>Additional Toxicity Information: Especially none.</p>

12.Ecological Information
Biodegradability: N/D
Bioaccumulation: N/D
Follow the local regulation for non-hazardous materials.

13. Disposal Considerations

Dispose in accordance with federal, state and local regulations.
The owner of the material is responsible for proper waste disposal.

14. Transport Information

Technical Shipping Name : Not regulated

Freight Class Bulk : N/A

Freight Class Package : N/A

Hazard Class or Division : None-Hazardous

15. Regulatory Information

TSCA (Toxic Substance Control Act): On TSCA

CERCLA (Comprehensive Emergency Response Compensation and Liability): None

EINECS (European Inventory of Existing Commercial Chemical Substances): 2156916

16. Other Information

Attention:

1. Disposable only.
2. For professional use only.
3. Single use to the correspondent tooth only.

N/A= not applicable, **NA**= not available, **N/D**= not determined

mg/m³ = milligrams per cubic meter, **C**= ceiling, **PEL**= permissible exposure limit

This **MSDS** was published in accordance with all the requirements that KOTRIC (Korea Testing and Research Institute For Chemical Industry) requested. And, This MSDS can use only for the product (**MISO Plus : Ceramic Brackets**)
