

-Material Safety Data Sheet-

MISO Plus (Ceramic Brackets)

Document #: HT/MSDS-003

Updated number Ver. 2
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Date of approval: Oct. 28. 2015
Approved by: Jeong Goo Hwang

1. Product and Company Identification

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| 1. Product and Company Identification | |
| 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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|---|--------|
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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. 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 | |
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| 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**)
