

Material safety data sheet

Material composition :

Ceramic ---Al₂O₃

Identity of the product:

Product identifier: Ceramic Brackets, Ceramic self-ligating brackets body, Ceramic lingual button

Section 1

Distributor's name :

Hangzhou Headway Medical equipment Co. Ltd.

Emergency Telephone Number: 13806518751

Address:

No. 1859 Wenju Street, Fuchun Street Fuyang District Hangzhou, Zhejiang, China 31140

Information Tel no. : 13806518751

Last update: June. 8th, 2019

Section 2

Hazardous ingredients/Identity information:

Ingredients that are considered hazardous are:

Ingredient	Wt. Percent	NTP listed	JARC listed
Al ₂ O ₃	99.93%	No	No
LOI	0.03%	No	No
NaO ₂	0.01%	No	No
SiO ₂	0.01%	No	No
Fe ₂ O ₃	0.01%	No	No
TiO ₂	0.01%	No	No

The above list is a summary of elements in Al₂O₃. Various grades of Al₂O₃ will contain different combinations of these elements. Trace elements may also be present in minute amounts.

Coatings; Certain materials such a lime, alkaline salts, oils , and certain residuals (<1% total weight of product) may remain on the product surface.

Notes:

1> National Toxicology Program

Section 3

Physical /Chemical Characteristics:

Boiling Point

Spec.Grav.

Deg. C : High

(H₂O)=4.5-18

Vapor Press (mm Hg)

Melting Point

(mm HG) : Nil (Butyl Acetate=1) :NA

Solubility in water: Insoluble

Appearance and Odor:

Solid, Odorless

Section 4

Fire and Explosion Hazard Data

Flash point (method used) Flammable limits LEL UEL

Nonflammable

Extinguishing Media: N/A

Special fire fighting procedures: N/A

Unusual fire and explosion hazards: N/A

Section 5

Reactivity Data:

Stability : stable

Conditions to avoid: None

Incompatibilities (materials to avoid) : None

Hazardous decomposition or byproducts: None

Hazardous Polymerization: will not occur

Section 6

Health Hazard Data:

Ceramic (Al₂O₃) are generally not considered hazardous in the form shipped . However, when ground, mealed ,welded, or cut they may cause a release of dust of fumes. Hazardous levels of dust and fumes of these stainless steel constituents may be generated. Following is alist of potential health affects for all of these specific elements contained in this partidular ceramic.

Health Effects:

Emercy and first aid procedures:

Inhalation: Move the person to fresh air until recovered, consult a physician .

Ingestion: Health effects are unlikerly. If any should occur, consult a physician.

Skin contact : Excessive of prolonged skin contact may cause irritation in sendsitized persons.

Wash with water and mild detergent. Consult a physician.

Section 7

Precautions for safe handling and use

Steps to be taken in case material is released or spilled :

Product is a solid when shipped , therefore, not necessary.

Waste disposal method:

Dispose of in accordance with EPA and Local regulations.

Precautions to be taken in handling and storage: N/A

Other Precautions: Standard safety practices.

Section 8

Respiratory protection (specify type)

Ventilation: General

Protective Gloves: Required when cutting, grinding

Eye Protection: Required when cutting ,grinding

Other protective clothing or equipment: Safety glasses, respirator, and gloves required when cutting , grinding..

Work/Hygienic Practices: Follow standard safety practices

The information contained in this MSDS is believed to be valid and accurate. Hangzhou Headway medical Equipment Co. Ltd. , however, makes no warranty , either expressed or implied, as to the completeness of information in all possible conditions.

REASONABLE SAFETY PRECAUTIONS SHOULD ALWAYS BE PRACTICED.