

Material Safety Data Sheet

Acc. To OSHA and ANSI

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1 Identification of Substance

Trade Name: HA FractalBalls

Manufacturer: Mattech Corporation

Address: P.O. Box 8502, Cincinnati, OH 45208

Phone: 513-237-7755

Emergency Phone: 513-237-7755

E-mail: info@buyrefractory.com

Website: www.buyrefractory.com

2 Composition Data

Chemical characterization

Description: Aluminum Oxide (CAS# 1344-28-1), 100%

EINECS Number: 2156916

3 Hazards Identification

HA FractalBalls™ have a low health risk by inhalation. This product contains total silicates at <1% by weight. Total silicates content includes metal silicates, amorphous and crystalline silica. No analytical method exists to detect and differentiate between amorphous and crystalline silica and other silicates at <1% by weight.

Hazard description: Not applicable.

Information pertaining to particular dangers for man and environment: Not applicable.

4 First Aid Measures

After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek medical advice.

After skin contact: Immediately wash with water and soap and rinse thoroughly. Seek Immediate medical advice.

After eye contact: Rinse opened eye for several minutes under running water, then consult a doctor.

After swallowing: Seek medical treatment.

Information for doctor: The following symptoms may occur: gastric or intestinal disorders, coughing, or breathing difficulty.

5 Fire fighting measures

Suitable extinguishing agents. Product is not flammable. Use fire fighting measures that suit the surrounding fire.

Protective Equipment

Wear self-contained respirator.

Wear fully protective impervious suit.

6 Accidental Release Measures

Person-related safety precautions

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

Measures for environmental precautions

Do not allow material to be released to the environment without proper governmental permits.

Measures for cleaning/collecting

Pick up mechanically.

Additional Information

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and Storage

Handling

For safe handling, keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace.

Storage

No special requirements to be met by storerooms and receptacles.

Information about storage in one common storage facility: Do not store together with

alkalies (caustic solutions). Store away from oxidizing agents.

8 Exposure controls and personal protection

Additional information about design of technical systems

Properly operating chemical fume hood designed for hazardous chemical and having an average velocity of at least 100 feet per minute.

Components with limit values that require monitoring at the workplace: Not required.

General protective and hygienic measures

The usual precautionary measures for handling chemical should be followed. Keep away from foodstuffs, beverages, and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks at the end of work. Use suitable respirator when high concentrations are present.

Protection of hands: Impervious gloves

Eye protection: Safety glasses

Body protection: Protective work clothing.

9 Physical and Chemical Properties

Color: White

Odor: Odorless

Melting point/ Melting range: Not determined.

Boiling point/ Boiling range: Not determined.

Sublimation temperature/ start: Not determined.

Flash Point: Not applicable.

Flammability (solid, gaseous): Product is not flammable.

Ignition temperature: Not determined.

Decomposition temperature: Not determined.

Danger of Explosion: Product does not present an explosion hazard.

Vapor pressure: Not determined.

Density at 20°C: 1.6 g/cm³

Solubility in / Miscibility with water: Insoluble

10 Stability and Reactivity

Thermal decomposition

Decomposition will not occur if used and stored according to specifications.

Materials to be Avoided

Acids

Bases

Oxidizing agents

Interhalogens

Halocarbons

Dangerous Reactions

Exothermic reaction with water.

Dangerous products of decomposition

Metal oxide fume.

11 Toxicological Information

Acute Toxicity

Irritant effect sensitization: No sensitizing effect known.

Primary irritant effect: on the skin (powder)

Irritant effect on the eye (powder)

To the best of our knowledge, the acute and chronic toxicity of this substance is not fully known.

ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals.

The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic and/or neoplastic data for components in this product.

12 Ecological Information

General notes: Do not allow material to be released to the environment without proper governmental permits.

13 Disposal considerations

Product recommendation: consult state, local or national regulations for proper disposal.

Uncleaned packages information: disposal must be made according to official regulations.

14 Transportation Information

Not a hazardous material for transportation.

DOT regulations: Hazard class: none.

Land transport ADR/RID (cross-border): ADR/RID class: none.

Maritime transport IMDG: IMDG class: none

Air transport ICAO-TI and IATA-DGR: ICAO/IATA class: none

Transport/ Additional Information: Not dangerous according to the above specifications.

15 Regulations

Product related hazard information

Observe the general safety regulations when handling chemicals.

National Regulations

All components of this product are listed in the U.S. Environmental Protection Agency

Toxic Substances Control Act Chemical Substance Inventory.

Information about limitation of use

For use only by technically qualified individuals.

16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.