

MATERIAL SAFETY DATA SHEET

Preparation date : September 28, 2016

1. Product and Manufacturer information

Product Name : Ceramic Ball SMFB (Blue)

TKX Corporation
5-16 Shimizudani-Cho, Tennoji-ku,
Osaka 543-0011, JAPAN
TEL : +81-6-6768-7588
FAX : +81-6-6768-1735

2. Summary for hazard, harmful

[GHS Classification]

Hazardous property : This product not applicable hazardous materials.
GHS Classification: not applicable
Pure substance of constitutes : Aluminium Oxide
Physico chemical hazrdous : not classified

Health hazard

specific target organ systemic toxicity(single exposure)
Classification: 3 (Respiratory tract irritation)
specific target organ systemic toxicity(repeated exposure)
Classification: 1 (Breathing: Lung)

GHS Label element :



Signal words : Danger

Hazard , harmful information : respiratory irritation
Failure of Lung by Long or repeated exposure (breathing)

Dermal contact : There is a fear that rough hand when work with bare hands, using working gloves.

3. Compositrion and Ingredients information

Classification of a single : mixture substancers
product-mixture

Aluminum Oxide (Al2O3), Silicon dioxide (SiO2)
As remaining impurities, include other oxide (Fe2O3, TiO2, CaO,
Na2O, K2O, CoO)

Official Gazette notice
reference number
(The chemical substance
control law)
(Industrial safety and
health law)

CAS No.

UN Classification and
UN Number : Not applicable to hazardous substances.

4. First Aid

If the eyes :Immediately washed with water, because there is a case that is scratched, get medical attention.

5. The measure in case of a fire.

:It has been fired at high temperature, not able to direct combustion. Appropriate measure should be take so as not to spill by drainage etc, for digestion.

6. Accidental release measures

:Because there is a hand rough fear when working with bare hands, appropriate measures to use gloves.

7. Handling and storage

Handling Harmless, there is but always wear gloves
Storage So as not to fall at the time of loading careful handle because it is heavy.
Caution

- This is not food and drink, never to put into one's mouth.
- When this products scattered on the floor, there is danger falling slipping, promptly cleaning, quickly remove.
- When handle this products, to wear gloves for protection.
- It is havy, pay attention load collapse by palcing loading.
- This product disposal entrust that the company received permission of industrial waste disposer.

8. Exposure prevention measures

Safety place, work using gloves .

9. Physical and Chemical properties

Appearance · Hard substances
Odor · No odor

10. Stability and reactivity

· Stable at under normal handling conditions(at normal temperatue)

11. Toxicological Information

· Nothing

12. Environmental influence information

· Nothing

13. Disposal considerations

: No hazard information, however disposal entrusted that the company received permission of industrial waste disposer.

14. Notes on transport

: To check container damage such as, before transportation.
: Container stacked no falling, corrosion, perform load collapse prevention reliably.

15. Applicable law and regulations

Fire laws	: Not applicable
OSHA ACT/REG	: Not applicable
Poisonous and deleterious substances control law	: Not applicable
PRTR law	: Not applicable

16. Other informations

This product is all Oxide substances, high-temperature heat treatment.

MATERIAL SAFETY DATA SHEET

Preparation date : September 28, 2016

1. Product and Manufacturer information

Product Name : Ceramic Ball SMFB (White)

TKX Corporation
5-16 Shimizudani-Cho, Tennoji-ku,
Osaka 543-0011, JAPAN
TEL :+81-6-6768-7588
FAX :+81-6-6768-1735

2. Summary for hazard, harmful

[GHS Classification]

Hazardous property : This product not applicable hazardous materials.

GHS Classification: not applicable

Pure substance of constitutes : Aluminium Oxide

Physico chemical hazardous : not classified

Health hazard

specific target organ systemic toxicity(single exposure)

Classification: 3 (Respiratory tract irritation)

specific target organ systemic toxicity(repeated exposure)

Classification: 1 (Breathing: Lung)

GHS Label element :



Signal words : Danger

Hazard , harmful information :respiratory irritation

Failure of Lung by Long or repeated exposure(breathing)

Dermal contact :There is a fear that rough hand when work with bare hands, using working gloves.

3. Composition and Ingredients information

Classification of a single : mixture substances
product-mixture

Aluminum Oxide (Al₂O₃)21%, Silicon dioxide (SiO₂) 72%

As remaining impurities, include other oxide (Fe₂O₃, TiO₂, CaO,
Na₂O(1.7%), K₂O(3.9)

Official Gazette notice
reference number
(The chemical substance
control law)
(Industrial safety and
health law)

CAS No.

UN Classification and UN Number : Not applicable to hazardous substances.

4. First Aid

If the eyes :Immediately washed with water, because there is a case that is scratched, get medical attention.

5. The measure in case of a fire.

:It has been fired at high temperature, not able to direct combustion. Appropriate measure should be take so as not to spill by drainage etc, for digestion.

6. Accidental release measures

:Because there is a hand rough fear when working with bare hands, appropriate measures to use gloves.

7. Handling and storage

Handling Harmless, there is but always wear gloves
Storage So as not to fall at the time of loading careful handle because it is heavy.
Caution

- This is not food and drink, never to put into one's mouth.
- When this products scattered on the floor, there is danger falling slipping, promptly cleaning, quickly remove.
- When handle this products, to wear gloves for protection.
- It is havy, pay attention load collapse by palcing loading.
- This product disposal entrust that the company received permission of industrial waste disposer.

8. Exposure prevention measures

Safety place, work using gloves .

9. Phisical and Chemical properties

Appearance

- Hard substances

Odor

- No odor

10. Stability and reactivity

• Stable at under normal handling conditions(at normal temperatue)

11. Toxicological Information

• Nothing

12. Environmental influence information

• Nothing

13. Disposal considerations

: No hazard information, however disposal entrusted that the company received permission of industrial waste disposer.

14. Notes on transport

: To check container damage such as, before transportation.
: Container stacked no falling, corrosion, perform load collapse prevention reliably.

15. Applicable law and regulations

Fire laws	: Not applicable
OSHA ACT/REG	: Not applicable
Poisonous and deleterious substances control law	: Not applicable
PRTR law	: Not applicable

16. Other informations

This product is all Oxide substances, high-temperature heat treatment.

Material Safety Data Sheets

1. Substance identity and company contact information

Product Name: Radiance 2

Reference Number: N/A

Chemical Family: N/A

Chemical Name: N/A

Synonyms: N/A

Company Information:

BRANDON INDUSTRIES
216 E. McLeroy Blvd.
Saginaw, TX 76179

Emergency telephone:

E-mail: brandonindustries@sbcglobal.net

2. Chemical composition and data on hazardous ingredients

Component	Cas No.	Quantity (optional)
sodium tetraborate dehydrate	1303-96-4	

SARA 313 Compounds

This product does not contain any SARA 313 compounds.

3. Hazards identification

Emergency overview: May be harmful if ingested or inhaled. May cause irritation to skin, eyes, and respiratory tract.

Potential Health Effects

Eye contact: May cause some irritation.

Skin contact: May cause irritation.

Inhalation: May cause irritation to the respiratory tract.

Ingestion: Causes irritation to the gastrointestinal tract.

4. First aid measures

If in eyes or on skin: Flush with plenty of water for at least 15 minutes. Remove contaminated protective clothing and wash before reuse.

If inhaled: Remove to fresh air. Get medical attention for any breathing difficulty.

If ingested: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attn.

5. Fire-fighting measures

Flash point: N/A

Hazardous products of combustion: None

Extinguishing media: Water, dry chemical, carbon dioxide, or appropriate foam.

Fire fighting procedures: Pay attn. to protective gear listed below.

Unusual fire and explosion hazards: none

Special Inf.: wear protective clothing and NIOSH approved self-contained breathing apparatus

6. Accidental release measures (spills)

Use proper personal protective equipment as indicated in Section 8. Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

7. Handling and storage

Handling: Avoid skin contact. Note potential health effects in section 3 and exposure controls and personal protection listed in section 8.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

8. Exposure controls and personal protection

Eye protection: Use goggles or full face shield where splashing is possible.

Skin protection: Wear protective gloves and apron. Note protective face coverings under eye protection.

Respiratory protection:

9. Physical and chemical properties

Appearance: powder

Odor: N/A

Density: N/A

pH: 8.5

Boiling point: N/A

Freezing point: N/A

10. Stability and reactivity

Stability: Stable under ordinary conditions of use and storage.

Conditions to avoid: Heat, flames, ignition sources and incompatibles.

Reacts with (incompatibilities): Strong oxidizing agents, strong acids, strong bases.

Hazardous decomposition products: Carbon dioxide and carbon monoxide may form along with oxides of boron when heated.

Hazardous polymerization: will not occur.

11. Toxicological information

RTECS#: no info. available

Carcinogenicity:	(NTP)	(IARC)	(OSHA)	(OEHHA)
	none	none	none	none

Exposure Limits: Sodium borate, decahydrate ACGIH TLV-TWA 5 mg/m³, NIOSH 5 mg/m³ TWA

12. Ecological information

13. Disposal considerations

Dispose of all waste and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.