

MATERIAL SAFETY DATA SHEET

1. Identification of the substance or mixture and of the supplier

1.1 Product Name:

RETENTION BEADS 150

1.2 Company /Undertaking identification

Manufacturer's Name: **SHOFU INC.**

Address: 11 Kamitakamatsu-cho, Fukunine, Higashiyama-ku, Kyoto 605-0983 ,JAPAN

Phone: +81-75-561-1112

Fax: +81-75-561-2273

Section in Charge: Quality Assurance Section

Date Prepared: 2011.10.4

1.3 Emergency Telephone Number

+81-75-561-1112

2. Hazards identification

GHS CLASSIFICATION

It is not possible to classify it.

LABEL ELEMENTS

SYMBOL

SIGNAL WORD

HAZARD STATEMENTS

PRECAUTIONARY STATEMENTS

[Prevention]

Obtain special instruction before use.

Wear protective gloves and eye/face protection.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash hands thoroughly after handling.

[Response]

If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.

If you feel un-well, get medical advice/attention.

If in eyes, rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

[Storage]

Store in a dark and cool place indoors, with containers tightly closed.

[Disposal]

Dispose of contents and container in accordance with regulation.

3. Composition/information on ingredients

Poly styrene [Cas No.9003-53-6] > 99 %

Titanium dioxide [Cas No.13463-67-7]

Others

4. First-aid measures

4.1 Eye contact : Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.

4.2 Skin contact : Immediately flush skin with plenty of water for at least 15 minutes while

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removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

4.3 Ingestion : Do not induce vomiting. Get medical aid.

4.4 Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

5.Fire-fighting measures

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| 5.1 Suitable Extinguishing Media: | Use water spray, dry chemical, carbon dioxide, or appropriate foam. |
| 5.2 Extinguishing Media Should not be used : | N/A |
| 5.3 Special Exposure Hazards Arising: | Irritant gases and fumes may emit. |
| 5.4 Special Protective Equipment: | Wear fire protective cloth and self-contained breathing apparatus, if necessary. |

6.Accidental release measures

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| 6.1 Personal Precautions: | See section 8. |
| 6.2 Methods for Cleaning Up: | Small quantities can be washed to drain with plenty water.
Large quantities should be collected by wet sweeping or vacuum. |

7.Handling and storage

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| 7.1 Handling: | Use with adequate ventilation. Minimize dust generation and accumulation.
Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. |
| 7.2 Storage: | Store under normal dry conditions. Keep containers closed. |

8.Exposure controls/personal protection

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|------------------------------------|--|---------------------------|------------------------------|
| 8.1Exposure limits: | CAS No. | OSHA PEL | ACGIH TLV |
| Poly styrene | 9003-53-6 | none listed | none listed |
| Titanium dioxide | 13463-67-7 | 15mg/m ³ (TWA) | 10mg/m ³ (TWA),A4 |
| 8.2 Respiratory Protection: | Dust mask | | |
| 8.3 Hand Protection: | Latex or rubber gloves | | |
| 8.4 Eye Protection: | Safety goggles (May be required) | | |
| 8.5 Skin Protection: | Not required. General protective overalls. | | |

9.Physical and chemical properties

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| 9.1 Appearance/Odour | Odourless powder |
| 9.2 Boiling Point/Boiling Range: | N/D |
| 9.3 Melting Point/Melting Range: | N/D |
| 9.4 Flash point: | N/D |
| 9.5 Auto flammability: | N/D |
| 9.6 Explosive Properties: | N/D |
| 9.7 Oxidizing Properties: | N/D |
| 9.8 Vapour Pressure: | N/D |
| 9.9 Relative Density: | 1.1 ~ 1.2 |
| 9.10 Solubility: water solubility | Insoluble |

10.Stability and reactivity

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| 10.1 Stability: | Stable under normal temperatures and pressures. |
| 10.2 Hazardous Decomposition Products: | Carbon monoxide, Carbon dioxide. |
| 10.3 Incompatibilities: | Strong oxidizing agents, hydrocarbons (aromatic, e.g. benzene, chrysene, |

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cumene, toluene), chlorinated hydrocarbons.

11.Toxicological information

11.1 Toxicological Data:

Titanium dioxide:

No LD50/LC50 information found relating to normal routes of occupational exposure. Investigated as a tumorigen and mutagen.

11.2 Carcinogenicity:

Titanium dioxide:

IARC classification: Group 2B - Possibly carcinogenic to humans.

NIOSH considers this substance to be a potential occupational carcinogen.

12.Ecological information

No information

13.Disposal considerations

Dispose of contents/container to in accordance with local/regional/national/international regulations.

14.Transport information

Airline restriction information ; It doesn't correspond.

UN No. ; It doesn't correspond.

Sea restriction information ; It doesn't correspond.

UN No. ; It doesn't correspond.

15.Regulatory information

Follow all regulations in your country.

16.Other information

This product is intended for use by dental professionals. (instrument/material)