SAFETY DATA SHEET



1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Material Name: Bioactive glass

Trade Name: Unigaft

Synonyms: bioactive glass bone graft Chemical Family: bioactive glass

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Intended Use: Medical device

Details of the Supplier of the Safety Data Sheet

Unicare Biomedical, Inc. 23011 Moulton Parkway, J-11 Laguna Hills, CA 92653 USA 1-949-305-9600

Emergency Telephone Number: 1-949-305-9600 Contact e-Mail: sales@unicarebiomedical.com

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS - Classification: Not classified as hazardous

EU Classification:

EU Indication of danger: Not classified

Label Elements

Signal Word: Not required

Hazard Statements: Not classified in accordance with international standards for workplace

safety.

Other Hazards: No data available

Australian Hazard Classification (NOHSC): Non-Hazardous Substance. Non-Dangerous

Goods.

Note: This document has been prepared in accordance with standards for workplace safety, which requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	EU Classification	GHS Classification	%
Silicon oxide	7631-86-9	Not listed	Not listed	~40
Sodium carbonate	497-19-8	Not listed	Not listed	~26
Calcium carbonate	1317-65-3	Not listed	Not listed	~26
Calcium Dibasic Phosphate	7758-23-8	Not listed	Not listed	~8

4. FIRST AID MEASURES

Description of First Aid Measures

Eye Contact: Flush eye(s) immediately with plenty of water. If irritation occurs or persists, get medical attention.

Skin Contact: No hazards which require special first aid measures. Wash off with soap and water. Cool skin rapidly with cold water after contact with molten material. Do not peel polymer from the skin. Consult a physician.

Ingestion: Not a probable route of exposure. However, in case of accidental ingestion, call a physician.

Inhalation: Not a probable route of exposure. Due to the nature of this material first aid is not normally required. If discomfort occurs, get medical attention.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms and Effects of Exposure: No data available Medical Conditions Aggravated by Exposure: None known

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

5. FIRE FIGHTING MEASURES

Extinguishing Media: Extinguish fires with CO2, extinguishing powder, foam, or water.

Special Hazards Arising from the Substance or Mixture

Hazardous thermal decomposition products: None known

Advice for Fire-Fighters: During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

Environmental Precautions

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No special environmental precautions required.

Methods and Material for Containment and Cleaning Up

Measures for Cleaning / Collecting: Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling

No special handling requirements for normal use of this material.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Store at room temperature in properly labeled containers. Keep away from heat, sparks and flames.

Specific end use(s): Medical device

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

No Occupational Exposure Limit (OEL) or Short Term Exposure Limit (STEL) has been identified.

Exposure Controls

Engineering Controls: General room ventilation is adequate unless the process generates dust, mist or fumes.

Personal Protective Equipment: Under normal conditions of use, personal protective equipment is not expected to be necessary.

Hands: Under normal conditions of use, hands protection is not expected to be necessary. **Eyes:** Under normal conditions of use, eye protection is not expected to be necessary. **Skin:** Under normal conditions of use, skin protection is not expected to be necessary. **Respiratory protection:** Under normal conditions of use, respiratory protection is not expected to be necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid granules Color: glassy translucent

Odor: None Odor Threshold: No data available

Molecular Formula: Not available

Nominal formula Weight: Not applicable pH: No data available

Water Solubility: Not soluble Solvent Solubility: soluble in acids

Melting/Freezing Point (°C): > 1000 Boiling Point (°C): Do not boil

Viscosity: No data available Density: ~ 3.5 gram / ml

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Vapor Pressure (kPa): No data available Vapor Density (g/ml): No data available

Evaporation Rate (Gram/s): No data available **Form:** Solid granules

Partition Coefficient: (Method, pH, Endpoint, Value) No data available.

Decomposition Temperature (°C): No data available.

Flammability:

Autoignition Temperature (Solid) (°C): No data available

Flammability (Solids): No data available Flash Point (Liquid) (°C): No data available

Upper Explosive Limits (Liquid) (% by Vol.): No data available Lower Explosive Limits (Liquid) (% by Vol.): No data available

10. STABILITY AND REACTIVITY

Reactivity: No decomposition if stored at ambient conditions. **Chemical Stability:** Stable under normal conditions of use.

Possibility of Hazardous Reactions: Under normal conditions of use, there are no known

hazardous reactions.

11. TOXICOLOGICAL INFORMATION

General Information: This product is composed of non-hazardous ingredients. **Carcinogen Status:** The components used in this product are not listed as a human carcinogen by IARC, NTP or US OSHA.

Skin irritation: The components used in this product do not cause skin irritation.

Skin sensitization: The components used in this product do not cause skin sensitization.

Mutagenicity: The components used in the product do not show mutagenic effects on bacterial or mammalian cell cultures.

12. ECOLOGICAL INFORMATION

Environmental Overview: The substance is a solid, inert glass and is not expected to produce toxic effects.

Aquatic Toxicity: The substance is a solid, inert glass and is not expected to produce toxic effects.

Additional ecological information: The product contains no substances classified as hazardous to the environment in concentrations which should be taken into account.

Bio-accumulative Potential: No data available

Mobility in Soil: No data available

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13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

EU Indication of danger: Not classified

OSHA Label: Non-hazardous in accordance with international standards for workplace safety.

Canada - WHMIS: Classifications WHMIS hazard class: None required

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all of the information required by the CPR.

CERCLA/SARA 313 Emission reporting: Not Listed

California Proposition 65: Not Listed

Inventory - United States TSCA - Sect. 8(b): Present

Australia (AICS): Present

16. OTHER INFORMATION

Data Sources: Unicare Biomedical, Inc. proprietary device development information.

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Prepared by: Operations Department, Unicare Biomedical, Inc.

Unicare Biomedical, Inc. believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

End of Safety Data Sheet

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