



CONSERVATION BY DESIGN LIMITED

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Technical Data Sheet

Microballoons (GBO1/2/3)

Description

Microballoons a.k.a Amorphous Silica, glass bubbles or microspheres are free of any slivers, and provide high density, high impact, and high strength properties for a variety of conservation applications.

Use

In conservation Microballoons are primarily used as thickeners or fillers for thixotropic mixes particularly adhesives, castings and consolidants.

Microballoons have been found to be particularly effective when mixed with consolidants such as Paraloid B72 to infill woodworm damaged areas on furniture and musical instruments such as violins and woodwind instruments.

Having a completely spherical shape and being free of slivers the heavier grades have also been used successfully to maintain the position of delicate or three dimensional glass and ceramics objects undergoing conservation treatment, ensuring artefacts are free of excess tension and abrasion.

Safety issues

Microballoons contain no substances classified as hazardous to health according to EC directives however due to their fine particle sizes we recommend the use of suitable eye and face protection when handling at close quarters.

Pack sizes

Microballoons are available in three pot sizes -

GB01	1.00 to 1.25 mm particle size ."
GB02	2.00 particle size (recommended for holding items in place)
GB03	0.34 to 0.40 mm particle size (best for in fills etc)

Date of issue: October 2002



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Material Data Safety Sheet

Microballons (GB01/2/3)

GLASS BUBBLES K37

110230305 1.00 GB Current 13.05.1998

I. PRODUCT AND COMPANY IDENTIFICATION

Product Identification No. (PIN):	110230305
Trade Name:	GLASS BUBBLES K37
Chemical Description:	Glass Bubbles (Microspheres) Product Type:
	Timecare Works 5 Singer Way Woburn Rd Ind. Estate Kempston Bedford MK42 7AW Great Britain Tel: (01234) 853555 Fax: (01234) 852334 Email info@conservation-by-design.co.uk Web: http://www.conservation-by-design.co.uk

Manufacturer/Supplier:

2. COMPOSITION/INFORMATION ON THE COMPONENTS

Product Formal Name:	Soda Lime Borosilicate Glass (Amorphous Silica)
Product Trivial Name:	Glass Bubbles (Microspheres)
CAS Number:	
EINECS Number:	

3. HAZARD IDENTIFICATION

Main Hazards:	The product contains no substances classified as hazardous to health according to EC directive.
Health Hazards:	Higher concentrations will have the following effects:- Irritating to eyes and . respiratory system.

4. FIRST AID MEASURES

General Advice:	If symptoms persist, call a physician.
Inhalation:	Move to fresh air.
Skin Contact:	Wash skin thoroughly with soap and water.
Eye Contact:	Wash out eye with plenty of water.
Ingestion:	Drink plenty of water.

5. FIRE FIGHTING MEASURES

Extinguishing Media:	Extinguish preferably with waterspray, foam or dry chemical. The product itself does not burn.
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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment.	
Environmental Precautions: No special environmental precautions required.	
Spillages:	Sweep up and shovel into suitable containers for disposal. Matenal can create slippery conditions underfoot. Avoid creating a dust.

7. HANDLING AND STORAGE

Hand ling:	Do not breathe dust. Wear personal protective equipment. See Section B.
Storage:	Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Control Measures:	Local exhaust.
Respiratory Protection:	Dust respirator if conditions are dusty.
Hand Protection:	Impervious gloves.
Eye Protection:	Dust tight goggles.
Body Protection:	Lightweight protective clothing.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Powder.
Colour:	White.
Odour:	None.
Flash Point (PMCC):	Not applicable.
Relative Density:	Not determined.

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
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11. TOXICOLOGICAL INFORMATION

General:	No experimental toxicological data on the preparation are available.
Acute Toxicity:	Not applicable.
Local Effects:	Overexposure to dust may cause irritation of eyes and throat.
Chronic Toxicity/Carcinogenicity:	Not applicable.

12. ECOLOGICAL INFORMATION

General:	No experimental ecological data are available on this preparation.
Ecotoxicity:	The product is expected to be non-hazardous to aquatic species.

13. DISPOSAL

Product Disposal:	Dispose of in accordance with all applicable local and national regulations. Contact waste disposal services.
Container Disposal:	Dispose of in accordance with all applicable local and national regulations.

14. TRANSPORT INFORMATION

General:	Not classified as dangerous in the meaning of transport regulations.
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15. REGULATORY INFORMATION

EU Classification:	Classification according to European Directives 67/548/EEC and 88/548/EEC as amended: Not classified as hazardous for supply in the meaning of EU Directives.
R-phrase(s):	None.
S-phrase(s):	None.

16. OTHER INFORMATION

MSDS first issued:	13/05/98
MSDS data revised:	
Prepared By:	S.P.J. Smith
Verified By:	F.C.V. Corti
Further Information:	Safety Data Sheet prepared according to EU Directive 91/115/EEC as amended.

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.