

Material Safety Data Sheet
Glass Beads
BM556 & BM558

Impact Test Equipment Ltd
www.impact-test.co.uk & www.impact-test.com

**Impact Test Equipment Ltd.
Building 21 Stevenston Ind. Est.
Stevenston
Ayrshire
KA20 3LR**

T: 01294 602626

F: 01294 461168

E: sales@impact-test.co.uk

Test Equipment Web Site

www.impact-test.co.uk

Test Sieves & Accessories Web Site

www.impact-test.com

COMPOSITION / DESCRIPTION

The products this data pertain to is Glass beads used for the determination of macro texture in road surfaces.

HAZARDS IDENTIFICATION

Human Health Effects: The material is not considered hazardous in normal use but the following potential hazards should be recognised;

- (a) Dust - Inhalation. (See below)
- (b) Skin irritation in susceptible individuals.
- (c) Noxious fumes evolved during fire.
- (d) Risk of dust explosion.

Environmental Effects: On the basis of information available, these products are not expected to produce any significant adverse environmental effects.

FIRST AID MEASURES

Skin Contact: Wash with plenty of water or soap and water. If irritation persists or any sign of tissue damage is apparent, obtain medical advice immediately.

As with any industrial product, contact with skin can cause irritation leading in some cases to dermatitis.

It is wise to take the usual precautionary measures of obtaining medical clearance for employees who have a history of skin disease or allergy. Skin contact should therefore be avoided. White petroleum jelly (Vaseline) is useful to minimise dryness of the skin.

Eye Contact: Irrigate with copious quantities of water for at least ten minutes and obtain medical advice if irritation persists or if there is any tissue damage.

Inhalation: In the event of exposure to levels above those stated, evacuate individuals concerned to a dust free environment, preferably into fresh air - if respiratory difficulties are encountered seek medical advice immediately.

The material should not be ingested and for this reason the preparation and consumption of food and drink in working areas should not be allowed. Rinse mouth with water and obtain medical advice immediately where accidentally ingested.

FIRE FIGHTING MEASURES

Exposure Hazards: This product will not ignite unless suspended as dust in sufficient concentration in air.

Protective Equipment: Fire fighters & others exposed, wear self-contained breathing apparatus and be aware of other combustible substances involved in any fire.

ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid dust inhalation, observe occupational exposure limits detailed in below.

S22 - Do Not Breathe Dust

S25 - Avoid Contact with Eyes

S38 – In event of insufficient ventilation, wear suitable respiratory equipment

S52 – Use only well ventilated areas

Environmental Precautions: Do not allow to enter drains & water courses, **product in bead format is very slippery on surfaces;** Exercise CAUTION.

Methods of cleaning up, vacuum or sweep up and dispose of.

HANDLING AND STORAGE

Handling: Handle in normal manner and be mindful of manual handling methods (weights), keep dust formation to a minimum.

S22 - Do Not Breathe Dust

S25 - Avoid Contact with Eyes

S38 – In event of insufficient ventilation, wear suitable respiratory equipment

S52 – Use only well ventilated areas

Storage: Store in closed bags / containers in dry well ventilated areas.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

All dusts have been assigned exposure limits, however in EH40/2005 and 2007 there are no defined parameters for glass dusts. Glass because of its inert nature does not have a WEL and is classified as a general dust.

The following statement applies to glass based product dusts;

The absence of a WEL does not imply that a substance is safe. Exposure to these substances should be controlled to a level to which nearly all of the working population could be exposed to on a daily basis without adverse effects on their health. Under Reg 6 of COSHH, employers should determine their own in house standards for controlled based on published information.

Regulation 11(2b) requires that health surveillance shall be treated as appropriate where:

The exposure of the employee to a substance hazardous to health is such that an identifiable disease or adverse health effect may be related to that exposure, there is a reasonable likelihood that the disease or effect may occur under the particular conditions of his work and there are valid techniques for detecting indications of the disease or effect.

General dusts have been assigned a WEL of 10 mg/m³ in EH40/2005, as a total inhalable dust (total inhalable dust being defined as the fraction which enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract).

Respiratory & Eye Protection: approved dust mask and eye protection.

Skin & Hand Protection: Prolonged contact with the skin should be avoided and protective clothing such as overalls and PVC or cotton-chrome gloves should always be available.

Face masks should be worn when dust is likely to be created.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Odour	Decomposition Point	Insoluble in
Clear , colourless spheres	None	>800 °C	Water
Clear / White / Multi Colour grains	None	>800 °C	Water
Compound	Chemical Formula	Typical Content %	CAS No. / EINECS No.
Silicon Dioxide (amorphous)	SiO ₂	73.0	7631-86-9 / 231-545-4
Sodium Oxide	Na ₂ O	15	1313-59-3 / 215-208-9
Calcium Oxide	CaO	7	1305-78-8 / 215-138-9
Magnesium Oxide	MgO	4	1309-48-4 / 215-171-9
Aluminium Oxide	Al ₂ O ₃	1	1344-28-1 / 215-691-6

N.B. Please note that the CAS numbers noted above are for the constituent parts/compounds of the materials, there is not a specific / generic CAS / EINECS number for Glass in its entirety.

STABILITY AND REACTIVITY

Conditions to avoid: Excessive thermal exposure to decomposition points.
Hazardous Decomposition: products change from solids to liquids with no adverse decomposition.

TOXICOLOGICAL INFORMATION

Laboratory Data: These materials have not been tested for toxicity, they are not classified under EC Directives.
Human Data: There is no human data available, glass and its derivatives has been utilised extensively for centuries and its human exposure scenario is well documented in peer literature.

ECOLOGICAL INFORMATION

Assessment: Handled correctly this product poses no serious environmental hazard. This product does not contain any substances that are classified under EC legislation for environmental effects.

DISPOSAL and ACCIDENTAL RELEASE MEASURES

In accordance with the Environmental Protection Act (Duty of Care) Regulations 1991, disposal implications must be taken into consideration.

REGULATORY INFORMATION

Classification This product range is not hazardous according to Directive 67/548/CE, 199/45/CE and 1272/2008/CE.
Labelling Requirement Not subject to labelling in accordance with current regulations in Force.

REACH Regulation Glass beads and glass grits have been assessed as exempt from registration under REACH regulation

Transport Information

Land Transport (ADR/RID) Not classified according to Transport Regulations for Hazardous / Dangerous Goods.

Marine Transport (IMO/IMDG) Not classified according to Transport Regulations for Hazardous / Dangerous Goods.

Air Transport (IATA) Not classified according to Transport Regulations for Hazardous / Dangerous Goods.

LEGAL NOTICE

The information contained in this Safety Data Sheet was considered the best available at the date of issue. However, no warranty is made or implied that the information is accurate or complete.

It is the user's obligation to evaluate **and use this product safely and to comply with all applicable laws and regulations.**