

Swarco Reactive Glass Beads



SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) 2015/830

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name Swarco Reactive Glass Beads

1.2. Relevant identified uses of the substance of mixture and uses advised against

Identified Uses Observe technical data sheet.
Marking material or accessories for paint and varnishes

1.3. Details of the supplier of the safety data sheet

Supplier Meon Ltd.
Railside
Northharbour Spur
Portsmouth
PO6 3TU
+44 (0) 23 9220 0606
mail@meonuk.com

1.4. Emergency Telephone Number

Emergency telephone +44 (0) 808 118 1922

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Aquatic Chronic 2 / H411 Hazardous to the aquatic environment Toxic to aquatic life with long lasting effects.

2.2. Label Elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Hazard statements H411 - Toxic to aquatic life with long lasting effects.

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Precautionary statements	P273 - Avoid release to the environment. P391 - Collect spillage.
Hazard components for labelling	Not applicable
Supplemental Hazard information (EU)	EUH208 - Contains dibenzoyl peroxide. May produce an allergic reaction.

2.3. Other hazards

Other hazards Do not breathe dust. Hazards identification: Irritation to eyes, Respiratory system, Skin.

SECTION 3: Composition/information on ingredients

3.1. Substances

3.2. Mixtures

Designation	Identification	Classification (EC) 1272/2008 [CLP] // Remark	Wt %
Soda-lime glass	CAS No. 65997-17-3 EC-No. 266-046-0		
dibenzoyl peroxide	CAS No. 94-36-0 EC-No. 202-327-6 Index-No. 617-008-00-0 REACH No. 01-2119511472-50-0000	Eye Irrit. 2 H319 / Skin Sens. 1 H317 / Aquatic Acute 1 H400 (M = 10) / Aquatic Chronic 1 H410 (M = 10) / Org. Perox. B H241	< 1

Additional information

Full text of classification: see section 16

SECTION 4: First aid measures

As a general rule, in case of doubt or if symptoms persist, always call a doctor.
NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

General	Inhalation of dust may cause irritation of the respiratory system. Move victim to fresh air.
Inhalation	Remove casualty to fresh air and keep warm and at rest.
Skin contact	IF ON SKIN: Wash with plenty of soap and water.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion	If swallowed, rinse mouth with water (only if the person is conscious). Keep victim calm. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Potential hazards: Irritating to skin, Pulmonary irritation, Cough

4.3. Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media

Suitable extinguishing media	No special measures are required.
Unsuitable extinguishing media	strong water jet

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5.2. Special hazards arising from the substance or mixture

Fire hazard No risks worthy of mention.

5.3. Advice for firefighters

Advice for firefighters Provide a conveniently located respiratory protective device.
Additional information Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Precautions Observe protective provisions (see Sections 7 and 8).

6.2. Environmental precautions

Environmental precautions Knock down dust with water spray jet.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Avoid dust formation.

6.4. Reference to other sections

Reference to other sections Observe protective provisions (see Sections 7 and 8).

SECTION 7: Handling and storage

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions on safe handling

Further information Vapours are heavier than air. Vapours form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels Contaminated packaging: Keep locked up. Store in a cool dry place. Avoid: Dust deposits
Further information on storage conditions Protect from heat and direct sunlight.

7.3. Specific end use(s)

Specific end use(s) Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values:

dibenzoyl peroxide

INDEX No. 617-008-00-0 / EC No. 202-327-6 / CAS No. 94-36-0

WEL, TWA: 5 mg

Additional information

TWA : long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

DNEL

dibenzoyl peroxide

INDEX No. 617-008-00-0 / EC No. 202-327-6 / CAS No. 94-36-0

DNEL long-term dermal (systemic), Workers: 6.6 mg/kg bw/day

DNEL long-term inhalative (systemic), Workers: 11.75 mg/m³

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PNEC

dibenzoyl peroxide

INDEX No. 617-008-00-0 / EC No. 202-327-6 / CAS No. 94-36-0

PNEC aquatic, freshwater: 0.0006 mg/l

PNEC aquatic, marine water: < 0.0001 mg/l

PNEC aquatic, intermittent release: 0.0006 mg/l

PNEC sediment, freshwater: 0.338 mg/kg

PNEC soil: 0.0758 mg/kg

PNEC sewage treatment plant (STP): 0.35 mg/l

8.2. Exposure controls

General	Do not breathe dust. If the formation of dust is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Comply with occupational limit values for dust.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Particle filter device (DIN EN 143) P2.
Hand protection	Wear protective gloves. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer.
Eye/face protection	Recommendation: Wear safety goggles to protect your eyes from dust.
Body protection	Wear suitable protective clothing.
Protective measures	After contact clean skin thoroughly with water and soap or use appropriate cleanser. Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.
Environmental exposure controls	Do not allow to enter into surface water or drains. See Section 7. No additional measures necessary.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state	Solid
Colour	Transparent
Odour	Odourless
Odour threshold	Not applicable
pH at 20 °C	Not applicable
Melting point / melting range approx. (°C)	1400; <i>Source: Soda-lime glass</i>
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability	
<i>Burning time (s)</i>	Not applicable
Upper/lower flammability or explosive limits	
<i>Lower explosion limit</i>	Not applicable
<i>Upper explosion limit</i>	Not applicable
Vapour pressure at 20 °C	Not applicable
Vapour density	Not applicable
Relative density	

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Density at 20 °C	Not determined
Bulk density approx.	1.5 g/cm ³
Solubility(ies)	
<i>Water solubility (g/L) at 20 °C</i>	Insoluble
Partition coefficient: n-octanol/water	see Section 12
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Viscosity at 20 °C	Not applicable
Explosive properties	Not applicable
Oxidising properties	Not applicable

9.2. Other information

Other information	No further relevant information available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	This material is considered to be non-reactive under normal use conditions.
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10.2. Chemical stability

Stability	Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to Section 7.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No risks worthy of mention.
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10.4. Conditions to avoid

Conditions to avoid	No special measures are required.
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10.5. Incompatible materials

Materials to avoid	No data available.
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10.6. Hazardous decomposition products

Hazardous decomposition products	No known hazardous decomposition products.
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SECTION 11: Toxicological information

Classification according to Regulation (EC) No 1272/2008 [CLP]

11.1. Information on toxicological effects

Acute toxicity	dibenzoyl peroxide oral, LD50, Rat: > 5000 mg/kg Method: OECD 401 inhalative (dust and mist), LC50, Rat: 24,3 mg/l (4 h) Method: OECD 403
Skin corrosion/irritation; Serious eye damage/eye irritation	dibenzoyl peroxide eyes, Rabbit Method: OECD 405 Causes eye irritation.
Respiratory or skin sensitisation	dibenzoyl peroxide Skin, Mouse: ; evaluation Skin sensitisation Method: OECD 429

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CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Based on available data, the classification criteria are not met.

STOT-single exposure; STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

Practical experience/human evidence

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin.

Overall Assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

SECTION 12: Ecological information

Classification according to Regulation (EC) No 1272/2008 [CLP]
Do not allow to enter into surface water or drains.

12.1. Toxicity

Identification	Toxicity		Species	Genus	Method
dibenzoyl peroxide CAS: 94-36-0 EC: 202-327-6	LC50	0.0602 mg/L (96 h)	Oncorhynchus mykiss (Rainbow trout)	Fish	OECD 203
	EC50	0.11 mg/L (48 h)	Daphnia magna (Big water flea)	Crustacean	OECD 202
	ErC50	0.0711 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae	OECD 201
	EC50	35 mg/l (30 min)		Bacteria	

Long-term Ecotoxicity Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Persistence and degradability **dibenzoyl peroxide**
Biodegradation: evaluation Biodegradable.
Method: OECD 301D

12.3. Bioaccumulative potential

Bioaccumulative potential Toxicological data are not available.
Bioconcentration factor (BCF) Toxicological data are not available.

12.4. Mobility in soil

Mobility in soil Toxicological data are not available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

Other adverse effects No information available.

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SECTION 13: Disposal considerations

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Appropriate disposal / Product Recommendation Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Remove according to the regulations.
Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

101112 waste glass other than those mentioned in 10 11 11

Appropriate disposal / Package Recommendation Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for Air Transport.

14.1. UN number

UN number UN 3077

14.2. UN proper shipping name

ADR/RID UMWELTGEFÄHRDENDER STOFF, FEST, N.A.G.
(Dibenzoylperoxid)

IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Dibenzoyl peroxide)

IATA-DGR / ICAO-TI Environmentally hazardous substance, solid, n.o.s.
(Dibenzoyl peroxide)

14.3. Transport hazard class(es)

Transport hazard class(es) 9

14.4. Packing group

Packing group III

14.5. Environmental hazards

ADR/RID UMWELTGEFÄHRDEND
Marine pollutant p / Dibenzoyl peroxide

14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

Further information

ADR/RID

tunnel restriction code -
in packages <= 5 kg Kein Gut der Klasse 9

IMDG

EmS-No. F-A, S-F

IATA-DGR / ICAO-TI

in packages <= 5 kg Not Restricted, as a Special Provision A197

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14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation To follow: EU legislation

National regulations To follow: National regulations

15.2. Chemical safety assessment

EC No. CAS No.	Designation	REACH No.
202-327-6 94-36-0	dibenzoyl peroxide	01-2119511472-50-0000

SECTION 16: Other information

Full text of classification in section 3

Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.
Org. Perox. B / H241	Organic peroxides	Heating may cause a fire or explosion.

Classification procedure

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Aquatic Chronic 2	Hazardous to the aquatic environment	Calculation method.
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Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose

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MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative
Further information	Classification according to Regulation (EC) No 1272/2008 [CLP]

Disclaimer

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.