

EU Safety Data Sheet

According to Attachment II EC Reg. 1907/2006 (REACH)

*The German
spirit of quality
since 1854*



SiLiglit Deco Beads

First created on: 2016-08-03 Updated on: 2021-08-18
Next inspection on: 2021-12-31 Printed on: 2021-08-18

Version: V16/2021

Note: The product is an object defined as an article in the Regulation (EC) No. 1907/2006 (REACH) Art. 3 Par. 3, not classified as dangerous or not containing substances classified as dangerous, so there is no obligation to issue a safety data sheet according to the Regulation (EC) No. 1907/2006 Art. 31 (Requirements for safety data sheets). The following information complies with the obligation according to Art. 32 (for substances on their own or in preparations for which a safety data sheet is not required) and was issued following the structure by Annex II.

1. Identification of the substance / the preparation / the product and identification of the company

1.1 Identification of the substance / the preparation / the product

Trade name: **SiLiglit Deco Beads**

1.2 Application of the substance / the preparation / the product

To be used as: Decoration article
Unsubscribed use: unknown

1.3 Company identification

Manufacturer / Supplier: Sigmund Lindner GmbH
Oberwarmensteinacher Str. 38
95485 Warmensteinach / GERMANY
Phone: +49-9277-9940
Fax: +49-9277-99499
Web: www.sili.eu
E-Mail: reach@sili.eu

Information provided by: Mr. Michael Dressler (Head of Quality)
Mr. Reinhold Schneider (Quality Manager)

1.4 Emergency Call

Emergency information: Phone: +49-9277-9940

This telephone number can be reached during Office Hours (CET):
Monday - Thursday: 7.00 AM - 4.30 PM
Friday: 7.00 AM - 1.00 PM

2. Possible dangers

2.1 Classification of the substance or mixture

Not classified according to Regulation (EG) No. 1272/2008 (CLP).

2.2 Labelling elements

Not subject to labelling according to Regulation (EG) No. 1272/2008 (CLP).

2.3 Additional danger advice

No risks from this product regarding human health or environment are apparent. We therefore have no knowledge of chronic or skin irritating effects when physical contacts has occurred.

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3. Composition / detailed information on the ingredients

3.1 Substance

Not relevant.

3.2 Mixtures

Description: Beads made of Soda-lime-glass, surface coloured

Colouring options:

- W Surface coloured (not resistant)
- WS Silver based + surface coloured (not resistant)
- L Surface coloured (solvent resistant coating)
- LS Silver based + surface coloured (solvent resistant coating)
- LA Aluminium based + surface coloured (solvent resistant coating)

3.3 Ingredients

Weight Soda-lime-glass > 98 %					
Substance Name	Classification	Weight	CAS N°	EC N°	REACH Reg.N°
Silicon dioxide SiO ₂	no hazardous substance	72.5 %	7631-86-9	231-545-4	01-2119379499-16
Sodium oxide Na ₂ O	WaterReact.2;H261 Skin Corr.1B;H314	13.0 %	1313-59-3	215-208-9	01-2120759517-43
Calcium oxide CaO	STOT.SE.3;H335 Skin.Irrit.2;H315 Eye Dam. 1;H318	9.6 %	1305-78-8	215-138-9	01-2120767286-44
Magnesium oxide MgO	no hazardous substance	4.22 %	1309-48-4	215-171-9	no registration
Aluminium trioxide Al ₂ O ₃	no hazardous substance	0.58 %	1344-28-1	215-691-6	01-2119529248-35

Weight Colour < 2 %						
Substance Name	Classification	CAS N°	EC N°	REACH Reg.N°	CI N°	FDA/CFR
Base coating						
Aluminium	WaterReact.2;H261 Flam.Sol.1;H228	7429-90-5	231-072-3	01-2119529243-45	77000	FDA Ref# 21 CFR 73.2645
Silver	no hazardous substance	7440-22-4	231-131-3	01-2119555669-21	77820	FDA Ref# 21 CFR 73.2500
Surface colouring						
Pigment Yellow 83	no hazardous substance	5567-15-7	226-939-8	01-2119475484-30	21108	FDA Ref# 21 CFR 73.2775
Pigment Blue 15	no hazardous substance	147-14-8	205-685-1	01-2119458771-32	74160	not known
Pigment Black 7 (nano)	no hazardous substance	1333-86-4	215-609-9	01-2119384822-32	77266 (nano)	not known
Pigment Violet 23	no hazardous substance	6358-30-1	228-767-9	no registration	51319	FDA Ref# 21 CFR 74.2340
Pigment Red 208	no hazardous substance	31778-10-6	250-800-0	01-2119968932-23	12514	FDA Ref# 21 CFR 73.2575
Pigment Red 144	no hazardous substance	5280-68-2	226-103-2	01-2119959306-31	12485	FDA Ref# 21 CFR 73.2250
Pigment White 6	no hazardous substance	13463-67-7	236-675-5	01-2119489379-17	77891	FDA Ref# 21 CFR 74.2705
Pigment Orange 34	no hazardous substance	15793-73-4	239-898-6	01-2119970554-31	21115	not known
Pigment Brown 25	no hazardous substance	6992-11-6	230-258-1	01-2119968929-10	12510	not known
Pigment Green 7	no hazardous substance	1328-53-6	215-524-7	01-2119459333-39	74260	not known
Solvent yellow 83:1	no hazardous substance	61116-27-6	none	no registration	none	FDA Ref# 21 CFR 74.2052

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4. First-aid measures

4.1 Description of first aid measures

4.1.1 General Advice

Remove soiled clothes. In case of health complaints, seek medical treatment. Watch your helpers for self-protection.

4.1.2 After Inhalation of dust

Provide fresh air.

4.1.3 After Skin Contact

Clean skin with water and soap.

4.1.4 After Eye Contact

Remove particle carefully from the affected eye. If needed, remove contact lens. Rinse eye 15 minutes thoroughly with plenty of water. Consult a physician if needed.

4.1.5 After Swallowing

Consult a physician after swallowing large quantities.

4.2 Main acute and delayed symptoms and effects

No information available.

4.3 Information on immediate medical help or special treatment

Dusty parts of the product may irritate skin, mucous membranes, eyes and respiratory tract. Decontamination and symptomatic treatments are in most cases sufficient.

5. Fire fighting actions

5.1 Extinguishing agents

5.1.1 Suitable extinguishing agents:

The product itself is neither combustible nor explosive. Extinguishing agents have to be coordinated with the surrounding fire.

5.1.2 For safety reason unsuitable extinguishing agents

Unknown.

5.2 Special hazards arising from the substance or mixture

No information available.

5.3 Instructions for fire fighting

Protective equipment has to be coordinated with the surrounding fire.

6. Measures by accidental release

6.1 Personal precautions, protective equipment and emergency procedures

Avoid formation of dust, do not inhale dust.

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6.2 Environmental measures

No special actions necessary.

6.3 Methods and materials for retention and cleaning

Sweep up the product and pick it up. Avoid dust formation during cleaning.

6.4 Reference to other sections

Personal protective equipment according to section 8.2, disposal according to section 13.

7. Handling and storage

7.1 Protective measures for safe handling

7.1.1 Notes on safe storage

Increased risk of slipping due to spilled product. Avoid dust formation.

7.1.2 Information on fire and explosion protection

No data available, the product itself is not flammable and not explosive.

7.2. Conditions for safe storage under consideration of incompatibilities

7.2.1 Requirements for storage in rooms and containers

No special storage necessary. Storage in tightly closed (original) container.

7.2.1 Information on storage in one common storage facility:

Storage class according to TRGS 510: LGK 13 (non-flammable solids)

No incompatible products to mention.

7.3 Specific end uses

See section 1.2.

8. Exposure limits and personal protection

8.1 Parameters to be monitored

Mechanical dry processing of the product can generate a risk of dust: The local limits of dust concentration at the work have to be considered.

Parameter	CAS-Number	EINECS	Value	Type of limit
General dust limit	----	----	10 mg/m ³ E 1.25 mg/m ³ A	Limit at work (AGW) according to the TRGS 900 Regulation
Aluminium	7429-90-5	231-072-3	50 µg/g Kreatinin	Limit at work (BGW) according to the TRGS 903 Regulation
Silica, amorphous (Silicon dioxide)	7631-86-9	231-545-4	4 mg/m ³ E	Limit at work (AGW) according to the TRGS 900 Regulation

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8.2 Exposure controls and monitoring

8.2.1 Technical protection measures

An on-site extraction system is required in the event of gathered dust and thermal pollution from the product.

8.2.2 Personal protection equipment

8.2.2.1 Respiratory protection



Use respiratory protection in case of dust exposure, e.g. dust mask with particle filter FFP2 or FFP3, according to standard NF EN 149.

Inhalation limitation of the zirconium compound of the Al_2O_3 :

- 5 mg/m³ of Zr for 8 hours (TWA) according to ACGIH, DFG-MAK and OSHA
- 10 mg/m³ of Zr for 15 min (STEL) according to ACGIH and OSHA

Inhalation restriction from amorphous silica:

- 4 mg/m³ according to DFG-MAK
- 6 mg/m³ according to OSHA
- 10 mg/m³ for 8 hours (TWA) according to ACGIH

Under normal conditions of use, the load during processing of the product is lower than 1 mSv/year (1760 H/year) (limit values for persons prescribed by EURATOM Directive 96/29).

8.2.2.2 Hand protection



Protective gloves are generally not required. In case of constant skin contact, gloves are sufficient for low mechanical and material stress, see also BGR 195, e.g.:

Material:	Material thickness	Penetration time:
Butyl rubber	min. 0.4 mm	min. 30 min. acc. to DIN EN 374

8.2.2.3 Eye protection



Mechanical processing with dust exposure requires safety goggles closed at the side in accordance with DIN 58211 or DIN EN 166.

8.2.2.3 Body protection

Safety shoes to wear the product, as well as normal work clothes are sufficient.

8.2.2.4 General industrial safety and hygiene measures

Do not inhale dust. Avoid contact with eyes. Do not eat, drink or smoke while working. Wash hands before breaks and at the end of work.

8.2.3 Limitation and monitoring of environmental exposure

Environmentally hazardous properties of the product are not known, so that the general operational measures for environmental protection are sufficient.

8.2.4 Limitation and monitoring of the exposure for private end users

No special protective measures necessary as the product is not available for private end users.

8.2.5 Limitation and monitoring of environmental exposure

Environmentally hazardous properties of the product are not known, so that the general operational measures for environmental protection are sufficient.

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9. Physical and chemical properties

9.1 General details

Physical condition:	Solid
Shape:	round (beads)
Odour:	Odourless
Colour:	Various (refer to table regarding colour proportions, Chapter 3.3)

9.2 Important details regarding health / environmental protection as well as safety

pH value:	Non-applicable
Heat resistance (colouring):	150 °C
Softening point (temperature):	Non-applicable
Flash point:	Non-applicable
Self-ignition point (Solid/Gas):	Non-applicable
Blaze properties:	Non-applicable
Risk of explosion:	Non-applicable
Vapour pressure:	Non-applicable
Specific weight:	2.50 kg/dm ³
Bulk density:	1.50 kg/dm ³
Water solubility:	Insoluble in water
Partition coefficient n-Octanol/ water:	Non-applicable
Viscosity:	Non-applicable
Vapour density:	Non-applicable
Evaporation speed:	Non-applicable

9.3 Additional details

There are no further details required regarding safety-relevant parameters.

10. Stability and reactivity

10.1 Reactivity

Not reactive under the stated conditions of use and storage.

10.2 Possibility of dangerous reactions

If handled and stored properly, no dangerous reactions are known.

10.3 Conditions to avoid

Protect from temperatures > 450 °C.

10.4 Incompatible materials

Strong alkalis (e.g. NaOH), hydrofluoric acid (HF).

10.5 Hazardous decomposition products

Unknown

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11. Toxicological data

11.1 Information on toxicological effects

11.1.1 Toxicokinetics, metabolism and distribution

No data available.

11.1.2 Acute toxicity

No data available.

11.1.3 Etching and irritant effects

Product dust can mechanically irritate skin and mucous membrane, eyes and respiratory organs..

11.1.4 Sensitizing effects

No sensitizing effects on skin and respiratory organs known.

11.1.5 Specific organ toxicity at single or repeated exposure

No organotoxic effects known.

11.1.6 Carcinogenicity, mutagenicity and reproductive toxicity

No carcinogenic, mutagenic or toxic to reproduction effects known.

12. Environmental details

12.1 Toxicity

No data available.

12.2 Persistence and degradability

The product is insoluble and the inorganic substances it contains are not bioavailable.

12.3 Bioaccumulation potential

The product is insoluble and the inorganic substances it contains are not bioavailable, thus not bioaccumulative.

12.4 Mobility in the ground

The product is insoluble and therefore not mobile.

12.5 Results of PBT and vPvB assessment

The product does not contain PBT or vPvB substances according to REACH Annex XIII criteria.

12.6 Other adverse effects

Ozone depletion potential and greenhouse effect are not known.

Ecological and ecotoxicological data are not available. A threat to the environment is not to be expected if the product is handled and disposed of safely.

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13. Notes on disposal

13.1 Waste treatment process

The product does not generate any waste that is subject to monitoring in accordance with Regulation (EU) No. 1357/2014. For disposal, national laws and local regulations must be observed.

13.1.1 Product

Product residues should be reused wherever possible.

13.1.2 Uncleaned packaging

Recommendation: Non-contaminated packaging can be reused.
Cleaning agent Water.

14. Information on Transport

14.1 <u>UN-Number</u>	not relevant
14.2 <u>Proper UN shipping name</u>	not relevant
14.3 <u>Transport hazard classes</u>	not relevant
14.4 <u>Packaging group</u>	not relevant
14.5 <u>Environmental hazards</u>	see section 14
14.6 <u>Special precautions for the user</u>	see section 7
14.7 <u>Transport in bulk in accordance with Annex II to the MARPOL Convention and the IBC Code</u>	not relevant

Note: No dangerous goods as defined by ADR/RID/ADN/GGVSEB, ICAO/IATA, IMDG.

15. Legal provisions

15.1 Safety, health and environmental protection/legislation specific to the substance or mixture

15.1.1 EU-regulations

Classification and labelling: None according to Directive (EC) No. 1272/2008 (CLP) or other known EU regulations.

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15.1.2 National regulations

Classification and labelling:	None according to the Hazardous Substances Ordinance (GefStoffV) or according to other known national regulations
Employment restrictions:	None according to GefStoffV, JArbSchG or MuSchV
Major Accidents Ordinance:	The product is not subject to the Major Accidents Ordinance.
Water hazard class:	No WGK, not hazardous to water according to AwSV.

15.2 Chemical safety assessment

A chemical safety assessment of the product or its components is not available.

16. Additional information

16.1 Summary of the H-Statements (section 3.2)

Rating of independent substances

H228	Flammable solid.
H261	In contact with water releases flammable gases.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

16.2 Recommended Limitations of Use

Deco Beads are not a toy and must therefore be stored away from children. A resale as toy requires the EC conformity evaluation and the distributor's compliance with the legal regulations. We expressly point out, that a conformity evaluation in this sense has not been carried out by us.

16.3 Further information

Company details: Sigmund Lindner GmbH
Oberwarmensteinacher Str. 38
95485 Warmensteinach / GERMANY
Phone: +49-9277-9940
Fax: +49-9277-99499
Web: www.sili.eu

Technical contacts: Mr. Erwin Pschierer (Product Manager Glitter)
information Mrs. Manuela Pilz (Product Manager Glitter)

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16.4 Used abbreviations

A:	Alveolar Dust
ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
AGW:	Occupational exposure limit according to TRGS 900
BGW:	Biological limit value according to TRGS 903
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
CI N°:	Colour Index Number
CLP:	Classification, Labelling and Packaging of Substances and Mixtures
E:	Inhalable Dust
EC N°:	EINECS Number (European Inventory of Existing Commercial Chemical Substances)
FDA/CFR:	Code of Federal Regulations - Title 21 - Food and Drugs
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
IMDG:	International Maritime Code for Dangerous Goods
REACH:	Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals.
RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
TRGS:	Technical Rules for Hazardous Substances
WGK:	Water hazard class

16.5 Remarks

All details noted in this data sheet correspond to our knowledge at the time this data sheet has been put into effect. This information should be used as a guideline for a safe treatment in accordance with the products mentioned in our material safety data sheet, during storage, production, transport and disposal. This information is not applicable to other products, to newly produced materials, if the product mentioned in this material safety data sheet is mixed or blended with other articles or when other transformations are made to it.

Date of the current version: 2021-08-18
Reason for the current version: yearly Revision, without any change
Replaced issue: MSDS en SiLiglit Deco Beads, V14/2019