Note: Non hazardous material, therefore it is not necessary to provide you with a safety data sheet according to Article 31 of the EC Regulation 1907/2006 (REACH).

## 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 Glass-Glitter, Glass-Flakes, Glass-Nuggets**

### 1.2 Application of the substance / the preparation / the product

To be used as: Decoration article

### 1.3 Company identification

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

Information provided by:
Mr. Michael Dressler (Quality and Innovation)
Mr. Reinhold Schneider (Quality Assurance)

### 1.4 Emergency Call

Emergency information: Phone: +49-9277-9940

This telephone number can be reached during office hours (Central European Time):
Monday - Thursday: 7.00 AM - 4.30 PM
Friday 7.00 AM - 1.00 PM

## 2. Possible dangers

GHS/CLP-Classification: Not a dangerous product according to the Globally Harmonised System (GHS) and CLP.
It does not have to be labelled according European Regulation (EC) No. 1272/2008 or national laws.

Additional danger advice: In case of inappropriate handling different kinds of injuries (cuts) are possible - keep away from children!
Risk of slipping due to spillage of product!

## 3. Composition / detailed information on the ingredients

### 3.1 Chemical characteristics

Description: Solid fragments 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) |

## 3.2 Ingredients

| Weight Soda-lime-glass ≥ 98 % | | | | | |
|---|---|---|---|---|---|
| Name | GHS/CLP Classification | Weight | CAS-No. | EC-No. (EINECS) | REACH Reg.No. |
| main components | | | | | |
| Silicon dioxide $SiO_2$ | amorphous, no hazardous substance | 68,0 - 73,0 % | 7631-86-9 | 231-545-4 | ---- |
| Sodium oxide $Na_2O$ | WaterReact.2;H261 Skin Corr.1B;H314 | 7,5 - 13,0 % | 1313-59-3 | 215-208-9 | ---- |
| Calcium oxide CaO | STOT.SE.3;H335 Skin.Irrit.2;H315 Eye Dam. 1,H318 | 4,0 - 9,5 % | 1305-78-8 | 215-138-9 | ---- |
| Potassium oxide $K_2O$ | self-rating: WaterReact.2;H261 Acute Tox. 4,H302 Skin Corr.2;H314 | 0,2 - 6,5 % | 12136-45-7 | 235-227-6 | ---- |
| Magnesium oxide MgO | no hazardous substance | 0,2 - 4,3 % | 1309-48-4 | 215-171-9 | ---- |
| Zinc oxide ZnO | Aquatic Acute 1, H400 / Aquatic Chronic 1,H410 | 0,0 - 4,3 % | 1314-13-2 | 215-222-5 | ---- |
| Aluminium trioxide $Al_2O_3$ | no hazardous substance | 0,5 - 3,9 % | 1344-28-1 | 215-691-6 | ---- |
| Boric oxide $B_2O_3$ | Eye.Irrit.2;H319 Skin.Irrit.2;H315 | 0.0 - 4,4 % | 1303-86-2 | 215-125-8 | ---- |
| further | | | | | |

| Weight Colour ≤ 2 % | | | | | |
|---|---|---|---|---|---|
| Name | GHS/CLP Classification | CI-Number | CAS-No. | EC-No. (EINECS) | REACH Reg.No. |
| Base coating | | | | | |
| Aluminium | WaterReact.2;H261 Flam.Sol.1;H228 | 77000 | 7429-90-5 | 231-072-3 013-002-00-1 | --- |
| Silver | no hazardous substance | none | 7440-22-4 | 231-131-4 | --- |
| Surface colouring | | | | | |
| Pigment Yellow 83 | --- | 21108 | 5567-15-7 | 226-939-8 | --- |
| Pigment Blue 15 | --- | 74160 | 147-14-8 | 205-685-1 | --- |
| Pigment Blue 27 | --- | 77510 | 25869-00-5 | 247-304-1 | --- |
| Pigment Black 7 | --- | 77266 | 1333-86-4 | 215-609-9 | --- |
| Pigment Violet 23 | --- | 51319 | 6358-30-1 | 228-767-9 | --- |
| Pigment Red 208 | --- | 12514 | 31778-10-6 | 250-800-0 | --- |
| Pigment Red 146 | --- | 12485 | 5280-68-2 | 226-103-2 | --- |
| Pigment White 6 | --- | 77891 | 13463-67-7 | 236-675-5 | --- |
| Pigment Orange 34 | --- | 21115 | 15793-73-4 | 239-898-6 | --- |
| Pigment Brown 25 | --- | 12510 | 6992-11-6 | 230-258-1 | --- |
| Pigment Green 7 | --- | 74260 | 1328-53-6 | 215-524-7 | --- |
| Solvent yellow 83:1 | --- | none | 61116-27-6 | none | --- |
| Pigment Black 11 | --- | 77499 | 1317-61-9 | 215-277-5 | --- |

## 4. First-aid measures

| | |
|---|---|
| General Advice: | Remove soiled Clothes |
| After Inhalation: | Provide fresh air. |
| After Skin Contact: | Clean Skin with water and soap. |
| After Eye Contact: | Remove particle carefully from the affected eye. If need be, remove contact lense. Rinse eye thoroughly with plenty of water. Consult a physician if needed. |
| After Swallowing: | Consult a physician after swallowing large quantities. |
| Advise to the physician: | Decontamination and symptomatic treatments are in most cases sufficient. |

## 5. Fire fighting actions

| | |
|---|---|
| Suitable extinguishing agents: | The product itself is neither combustible nor explosive. extinguishing agents has to be coordinated with the surrounding fire. |
| For safety reason unsuitable extinguishing agents: | largely unknown |
| Special dangers: | no information available |
| Special protective equipment: | protective equipment has to be coordinated with surrounding fire |

## 6. Measures by accidental release

| | |
|---|---|
| Personal protection: | Avoid the build up of dust. Do not inhale any dust. |
| Environmental measures: | It is not necessary to take actions in respect of product. Disposal has to be done as specified in chapter 13. |
| Cleaning procedures and absorption: | Dry absorption and if possible re-utilisation of the material. |

## 7. Handling and storage

### 7.1 Handling

| | |
|---|---|
| Safety advice: | High risk of slipping due to spillage of product. Avoid dust. |
| Technical protective measures: | No data available. The product itself is neither combustible nor explosive. |

### 7.2 Storage

Requirements for storage in rooms and containers: No special storage necessary. Store in tightly closed (original) containers.

Joint storage: No specially known incompatible materials

Storage class: LGK 13 (non-flammable solid materials)

## 8. Exposure limits and personal protection

### 8.1 Exposure limits

The applicable limits which are to be complied with and monitored, particularly during mechanical processing with a risk of dust:

| Parameter | CAS-Number | EINECS | Value | Type of limit |
|---|---|---|---|---|
| General dust limit | ---- | ---- | 10 mg/m³ E<br>3 mg/m³ A | Limit at work (AGW) according to the TRGS 900 Regulation |
| Silica, amorphous (Silicon dioxide) | 7631-86-9 | 231-545-4 | 4 mg/m³ E | Limit at work (AGW) according to the TRGS 900 Regulation |
| Aluminium in Urine | 7429-90-5 | 231-072-3 | 200 µg/l | biological limit (BGW) according to TRGS 903, sampling is done at the end of shift |
| | | | | E = breathable dust<br>A = alveolar dust |

### 8.2.1 Exposure limits and monitoring in the workplace

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

Respiratory protection: Use respiratory protection in the event of dust exposure, e.g. a P1 dust mark that conforms to EN 143 or a half mask with particle filter FFP1 or PP2 conforms to EN 141. Caution! Limited wearing period.

Hand protection: Protective gloves are generally not required. However, for constant skin contact it is necessary to use gloves of low mechanical and special material demands, e.g.

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

| | | |
|---|---|---|
| Eye protection: |  | Side-shielded safety goggles that conform to EN 166 are required when carrying out mechanical processing with exposure to dust. |
| Body protection: | | Generally, normal working clothes are sufficient. |
| General work protection and hygiene measures: | | Do not inhale dust. Avoid contact with eyes, skin and clothes. Do not eat, drink, smoke or snuff during work. Wash hands prior to breaks and after finishing work. Change soiled clothes. Protect skin by using e. g. skin lotions and -creams. |

### 8.2.2 Restrictions and monitoring of the environmental exposure

There are no known properties of the product, that pose dangers to the environment. General operational measures are sufficient to protect the environment.

## 9. Physical and chemical properties

### 9.1 General details

| | |
|---|---|
| Physical condition: | Solid |
| Shape Glass-Glitter: | Glass-fragments |
| Shape Glass-Nuggets: | Glass-pads |
| Odour: | Odourless |
| Colour: | Various (refer to table regarding colour proportions, Chapter 3.2) |

### 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

In case of appropriate handling and storage no dangerous reactions will occur.

## 11. Toxicological data

There is no toxicological data available.

## 12. Environmental details

Ecological respectively ecotoxicological data is not available.

## 13. Disposal information

No waste is produced from the product that would require special supervision according to directive (EU) No. 1357/2014.

### 13.1 Product

Re-use product remainders again if possible

### 13.2 Uncleaned Packaging

Recommendation: Packaging can be used again if not contaminated. Cleaning agent: water

## 14. Transport details

Non-hazardous materials in terms of ADR/GGVS, RID/GGVE, ICAO/IATA, IMDG.

## 15. Legal regulations

### 15.1 EU Regulations

| | |
|---|---|
| Classification and labelling: | None in accordance to the Regulation (EC) No. 1272/2008 (CLP) or in accordance to any other known regulations. |

### 15.2 National Regulations (UK)

| | |
|---|---|
| Classification and labelling: | The product is not due to labelling according to UK regulations. |
| Other UK regulations and guidances: | - Health and Safety at Work Act 1974.<br>- The Management of Health and Safety at Work regulations 1992.<br>- L5 Control of substances hazardous to Health. The Control of Substances Hazardous to Health Regulations 2002.<br>- Approved codes of practice and guidance.<br>- Guidance Note EH40 - Occupational Exposure Limits. |

## 16. Additional information

### 16.1 Summary of the H-Statements (chapters 3.2) (rating of independent substances)

| | |
|---|---|
| H228 | Flammable solid. |
| H261 | In contact with water releases flammable gases. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H400/410 | Very toxic to aquatic life / may cause long lasting harmful effects to aquatic life |

### 16.2 Recommended Limitations of Use

Glass-Glitters, -Flakes and Nuggets 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<br>Oberwarmensteinacher Strasse 38<br>95485 Warmensteinach<br>Germany<br>Phone: +49-9277-9940<br>Fax: +49-9277-99499<br>Web: www.sili.eu |
| Technical contacts: information | Mr. Erwin Pschierer (Product Manager Glitter)<br>Mrs. Manuela Pilz (Product Manager Glitter) |

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: | 2016-08-03 |
| Reason for the current version: | Update of chapter 13, EU-directive 2008/98/EC has been replaced through directive (EU) No. 1357/2014 |
| Replaced issue: | MSDS en SiLiglit Glass-Glitter, Flakes, Nuggets coloured Version 12/2016 |