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 Aluminium Glitter**

1.2 Application of the substance / the preparation / the product

To be used as: Effect material for wallpaper industry, furniture and sport article industry; also suitable for powder coatings.

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.

3. Composition / detailed information on the ingredients

3.1 Substance

Not relevant.

3.2 Mixtures

Description: Solid made of coated aluminium-foil

3.3 Ingredients

Substance Name	Classification	Weight	CAS Nº	EC N°	REACH Reg. N°	CI N°	FDA/CFR
Epoxy Resin *) high polymeric structure, hardened	no hazardous substance	8 %	25068-38-6	500-033-5	01-2119456619-26	none	FDA Ref# 21 CFR 177.1680
Yellow 83	no hazardous substance	depends on Article 0 - 2 %	5567-15-7	226-939-8	01-2119475484-30	21108	not known
Blue 15	no hazardous substance		147-14-8	205-685-1	01-2119458771-32	74160	not known
Red 190	no hazardous substance		6424-77-7	229-187-9	no registration	71140	not known
Red 221	no hazardous substance		71566-54-6	275-639-3	01-2119960257-33	20065	not known
Red 88 (Maroon)	no hazardous substance		14295-43-3	238-222-7	no registration	73312	not known
Black 7 (nano)	no hazardous substance		1333-86-4	215-609-9	01-2119384822-32	77266 (nano)	FDA Ref# 21 CFR 74.2052
Red 144	no hazardous substance		5280-78-4	226-106-9	01-2119959306-31	20735	not known
Aluminium	WaterReact.2;H261 Flam.Sol.1;H228	90 - 92 %	7429-90-5	231-072-3	01-2119529243-45	77000	FDA Ref# 21 CFR 73.2645

*) which are hardened after the production process, middle molecular weight > 700

4. First-aid measures

4.1 Description of first aid measures

4.1.1 General Advice

After contact with the melted product contaminated clothes need to be changed. In case of fainting, place and transport the person into recovery position. In case of persisting discomfort please contact a physician. To helpers: Please protect yourself.

4.1.2 After Inhalation

After inhalation of dust particles and in particular decomposition gases, take the injured person into fresh air, lay him down and protect him from hypothermia. In case of a fainting spell and existing breathing, place the person in a stabilized side position. Please contact a physician for treatments.

4.1.3 After Skin Contact

In case of contact with the melted product rinse water over the affected areas of skin for at least 15 minutes. Remove contaminated clothes, but do not remove product residues from the skin. Burns have to be covered with sterile bandages. In case of burns, skin irritations or other symptoms please contact a physician.

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

Rinse mouth thoroughly and drink plenty of water. In case of indisposition call a physician.

4.2. Main acute and delayed symptoms and effects

No information available.

4.3. Advise to the physician

Toxic effects of the product itself except for thermal decomposition and fire are unknown. In case of any discomforts please treat symptomatically.

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

Jet of water.

5.2. Special hazards arising from the substance or mixture

Carbon monoxides (CO) and other toxic and flammable gases can be released.

5.3. Special protective equipment

An independent respiratory device (isolation device) should be used.

5.4. Additional advice

The product can ignite in case of fire and can continue to burn outside of the source of ignition. Toxic-, flammable gases and vapours can be released through thermal decomposition. It is possible that flames can spread through spontaneous ignition of gaseous decomposition products. Please cool the melted product with water. Collect the burn residues and water for fire fighting in compliance with the legal regulations.

6. Measures by accidental release

6.1. Personal precautions, protective equipment and emergency procedures

Avoid formation of dust, do not inhale dust. Keep sources of ignition away from the dust.

6.2. Environmental measures

Wastewater must be mechanically cleaned from rest products prior to emptying into the sewer system.

6.3. Cleaning procedures and absorption

Dry absorption and if possible, re-utilisation of the material.

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 Safety advice

Avoid overheating through improper processing and dusting.

7.1.2 Technical protective measures

Local ventilation and airing guarantee, that all limits mentioned under point 8.1 are maintained.

7.1.3 Fire and explosion protection information

Keep away from sources of ignition.

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.

7.2.2 Additional details regarding storage

Protect from heat. Comply with the appropriate regulations of the company's fire prevention measures.

7.2.3 Information on storage in one common storage facility:

Storage class according to TRGS 510: LGK 11 (flammable solid materials).
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/m³ E 1.25 mg/m³ 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

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 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.

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

Side-shielded safety goggles that conform to EN 166 are required when carrying out mechanical processing with exposure to dust.

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.

9. Physical and chemical properties

9.1 General details

Physical condition:	Solid
Shape:	Glitter particles in rectangular, hexagonal or square shapes, Glitter motives
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: (Particle/Pigment)	220 °C
Melting point / melting range:	659 °C
Boiling point / boiling range:	2447 °C
Flash point:	Non-applicable
Self-ignition point (Solid/Gas):	Not self-igniting
Blaze properties:	None
Risk of explosion:	Possible dust- or decomposition gas explosion
Vapour pressure:	To be disregarded
Specific weight:	2.70 kg/dm^3
Bulk density:	Between 0.20 and 1.00 kg/dm^3 - depending on particle size
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

It is recommended to carry out a trial run prior to processing the product.

10.1. Reactivity

Not reactive under the stated conditions of use and storage.

10.2 Conditions to be avoided

Pyrolysis, dangerous decomposition products and dangerous reactions will not occur if the product is used as intended.

10.3 Substances to be avoided

Potent acids, bases and oxidation agents. Protect from temperatures > 150 °C

10.4 Dangerous decomposition products when heated

Aldehyde, carbon monoxide, carbon dioxide, hydrocarbons.

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
The contact with the melted product can cause burn wounds. The inhalation of dust and decomposition gases can cause health defects.

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 organtoxic 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. 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.

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

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.

16. Additional information

16.1 Summary of the H-Statements (chapters 3.3)

Rating of the substance Aluminium

H228	Flammable solid.
H261	In contact with water releases flammable gases.

16.2 Recommended Limitations of Use

The glitter mentioned in this safety data sheet has not been tested according to the European Cosmetics Directive and its requirements for commodities. On the part of Sigmund Lindner, this Glitter is not released as cosmetically approved article, nor should it be used as raw material for the application in cosmetics and food.

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

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 Alu-1 EP, Version 12/2019