



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 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 applied for powder coatings.

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@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.

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 a physical contact has occurred.



3. Composition / detailed information on the ingredients

3.1 Chemical characteristics

Description: Solid made of coated aluminium-foil

3.2 Ingredients

Name	Classification	Weight	CAS-No.	EINECS	CI-No.	FDA/CFR
Polyurethane Coating	not classified as hazardous	2,8 %	68258-82-2	none	none	FDA Ref# 21 CFR 177.1680
Farbpigmente						
Red 122	---	depends to Article, between 0 - 1,4 %	980-26-7	213-561-3	73915	---
Yellow 83	---		5567-15-7	226-939-8	21108	---
Blue 15	---		147-14-8	205-685-1	74160	---
Green 7	---		1328-53-6	215-524-7	74260	
Red 88 (Maroon)	---		14295-43-3	238-222-7	73312	
Black 7	---		1333-86-4	215-609-9	77266	---
Violet 23	---		6358-30-1	228-767-9	51319	---
Aluminium	WaterReact.2;H261 Flam.Sol.1;H228	95,8 - 97,2 %	7429-90-5	231-072-3 013-002-00-1	77000	

4. First-aid measures

General Advice: If damages to one's health occur contact a physician.

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 with plenty of water and consult a physician.

After Swallowing: Consult a physician after swallowing large quantities.

Advise to the physician: Dust particles may irritate skin and mucous membranes, eyes and respiratory tracts. Decontamination and symptomatic treatments are in most cases sufficient.

5. Fire fighting actions

Suitable extinguishing agents: drier sand, fire extinguishant class D

For safety reason unsuitable extinguishing agents: Water, extinguishing foam, carbon dioxide


Special dangers:	risk of dust explosion (through Aluminium powder)
Special protective equipment:	An independent respiratory device (isolation device) should be used.

6. Measures by accidental release

Personal protection:	Avoid the build up of dust. Do not inhale any dust. Keep sources of ignition away from the dust.
Environmental measures:	Waste water must be mechanically cleaned from rest products prior to emptying into the sewer system.
Cleaning procedures and absorption:	Dry absorption and if possible re-utilisation of the material.

7. Handling and storage

7.1 Handling

Safety advice:	Avoid overheating through improper processing and dusting.
Technical protective measures:	Local ventilation and airing guarantee, that all limits mentioned under point 8.1 are maintained.
Fire and explosion protection information:	 Keep away from sources of ignition.

7.2 Storage

Requirements for storage in rooms and containers:	Store in tightly closed (original) containers. Store in dry place.
Joint storage:	May not be stored together with products of storage class 1-3 (oxidizing substances), 4.1A (flammable solid materials) and 6.2 (infectious substances). Particular regulations will apply for the joint storage of storage classes 3B, 4.1B, 10, 11 and 12.
Additional details regarding storage:	Collocated storage with aqueous solutions should be avoided.
Storage class: contact	LGK 4.3 (Materials liberating flammable gases in with water)

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	Type of limit	Value	Comment
General dust limit, breathable fraction (E = breathable dust)	Limit at work (AGW) according to the TRGS 900 Regulation	10 mg/m ³ E	2 times exceeding within 15 min, 4 times per shift with an interval of 1 hour is permitted.
	Measuring procedure:	For example: according to the BIA workbook: "Messung von Gefahrstoffen" (Measurement of dangerous substances).	
General dust limit, alveolar fraction (A = alveolar dust)	Limit at work (AGW) according to the TRGS 900 Regulation	3 mg/m ³ A	2 times exceeding within 15 min, 4 times per shift with an interval of 1 hour is permitted.
	Measuring procedure:	For example: according to the BIA workbook: "Messung von Gefahrstoffen" (Measurement of dangerous substances).	
Aluminium in Urine	biological limit (BGW) according to TRGS 903	200 µg/l	sampling is done at the end of shift
	Measuring procedure:	atom absorption spectrometry (AAS)	

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: Butyl rubber Mat. thickness min. 0.4 mm Penetration time: 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: Glitter particles in either rectangular, hexagonal or square shapes
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: 232 °C
(Particle/Pigment/Coating)
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/dm³
Bulk density: Between 0.60 and 1.0 kg/dm³ - 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 Conditions to be avoided

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

10.2 Substances to be avoided

Potent acids, bases and oxidation agents.

10.3 Dangerous decomposition products when heated

Aldehyde, carbon monoxide, carbon dioxide, hydrocarbons.

11. Toxicological data

There is no toxicological data available.

According to our knowledge, the product does not cause any health defects, if proper handled and the product has been applied as intended.

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

12. Environmental details

Ecological respectively ecotoxicological data is not available.

According to our knowledge, the product does not cause any damages to the environment, if proper handled and the product has been applied as intended.

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 EU 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.
- The Management of Health and Safety at Work regulations 1992.
- L5 Control of substances hazardous to Health. The Control of Substances Hazardous to Health Regulations 2002.
- Approved codes of practice and guidance.
- Guidance Note EH40 - Occupational Exposure Limits.

16. Additional information

16.1 Summary of the H-Statements (chapters 3.2) (rating of the substance Aluminium)

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

16.2 Recommended Limitations of Use

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:

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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)

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 Alu -3 PU, Version 10/2015