



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 Polyester Glitter Grade I**

1.2 Application of the substance / the preparation / the product

To be used as: Effect material for aerosol, paint and coatings, decoration and other products

1.3 Company identification

Manufacturer / Supplier: Sigmund Lindner GmbH
Oberwarmensteinacher Str. 38
D-95485 Warmensteinach
Phone: (+49) 09277-9940
Fax: (+49) 09277-99499
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) 09277-9940

This telephone number can be reached during Office Hours (MEZ):

Monday - Thursday: 7.00 AM - 4.30 PM / Friday: 7.00 AM – 1.00 PM

2. Possible dangers

Classification: It does not have to be labelled according to the Preparation Guideline, respectively EU-directives 67/548/EWG or 1999/45/EG.

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

3. Composition / detailed information on the ingredients

3.1 Chemical characteristics

Description: Solid made of coated polyester-foil

3.2 Ingredients

Name	Symbol, R-/S-phrases	Weight	CAS-No.	EG-No. (EINECS)	CI-No.	FDA/CFR
Polyurethane Coating	no hazardous substance	2,5-3,2 %	68258-82-2	none	none	FDA Ref# 21 CFR 177.1680
Pigments						
Red 122	---	depends on Article 0 - 1,3 %	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	---
Violet 23	---		6358-30-1	228-767-9	51319	---
Aluminum Powder	F, R10-15, S(2)-7/8-43	0,1 %	7429-90-5	231-072-3	77000	---
Polyethylene Terephthalate	no hazardous substance	95,4-97,4 %	25038-59-9	none	none	FDA Ref# 21 CFR 177.1310

4. First-aid measures

- General information: 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.
- 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.
- After skin contact: In case of contact with the melted product rinse water over the affected areas of skin for at least 15 min. 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.
- After eye contact: Do not rub in case of particles in the eye. Please remove particles carefully from the affected eye. Rinse eyes thoroughly with plenty of running water, but remove contact lenses prior to this. In case of irritations and other symptoms please contact your physician.
- After swallowing: Rinse mouth thoroughly and drink plenty of water. In case of indisposition call a physician.
- 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


Suitable extinguishing agents:	Water spray, extinguishing foam, extinguishing powder, carbon dioxide.
For safety reason unsuitable extinguishing agents:	Jet of water
Special dangers:	Carbon monoxides (CO) and other toxic and flammable gases can be released.
Special protective equipment:	An independent respiratory device (isolation device) should be used.
Additional advice:	The product can ignite in case of fire and can 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

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:	No special storage necessary. Store in tightly closed (original) containers.
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Joint storage: May not be stored together with products of storage class 1 (explosive substances), 5.1A (igniting substances) and 6.2 (infectious substances). Particular regulations will apply for the joint storage of storage classes 2A, 2B, 4.1A, 4.2, 4.3, 5.1B, 5.1C, 5.2 and 7.

Additional details regarding storage: Protect from heat. Comply with the appropriate regulations of the company's fire prevention measures.

Storage class: LGK 11 (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	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:	different (table chapter 3.2)

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

pH value:	Non-applicable
Heat resistance:	175 °C
Melting point / melting range:	235 - 290 °C
Boiling point / boiling range:	Cannot be measured as decomposition occurs first
Flash point:	Non-applicable
Ignition temperature:	> 300 °C
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:	1.38 kg/dm ³
Bulk density:	between 0.50 and 0.60 kg/dm ³ - depending on particle size/gauge
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 the German "Closed Substance Waste Management Act" (Krw/-AbfG) respectively the 91/689/EWG and 2006/12/EG guidelines.

Unsoiled product:	Material recycling may be possible. If impossible, the remainders of the product should be disposed in compliance with the legal instructions as commercial waste which is similar to the disposal of domestic waste.
Registration of waste acc. to AVV:	20 01 39 – synthetics substances
Soiled product:	If material recycling is impossible, the remainders of the product should be disposed in compliance with the legal instructions as commercial waste which is similar to the disposal of domestic waste.
Registration of waste acc. to AVV:	20 03 01 – mixed domestic waste
Empty and partially emptied packages:	If material recycling is impossible, the remainders of the product should be disposed in compliance with the legal instructions as commercial waste which is similar to the disposal of domestic waste.
Waste code number acc. to AVV:	15 01 01 – packages made of cardboard and paper 15 01 02 – packages made of synthetic materials

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 EU Directive 67/548/EWG (substance directive), 1999/45/EC (dangerous preparation directive) 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 Risk-/Safety-Phrases (chapters 3.2)** (rating of substance Aluminium)

R-Phrases:	R10	Flammable
	R15	Reacts with water under development of highly flammable gases
S-Phrases:	S(2)	To be kept out of the reach of children
	S7/8	Keep container dry and tightly closed
	S43	To extinguish use dry powder. Do not use water

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: Sigmund Lindner GmbH
Oberwarmensteinacher Str. 38
D-95485 Warmensteinach
Phone: (+49) 09277-9940
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Technical contacts: Mr. Michael Dressler (Quality and Innovation)
information Mr. Reinhold Schneider (Quality Assurance)

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: 11.01.2011
Reason for the current version: ---
Replaced issue: ---