



Safety data sheet

1. Substance/preparation and company identification

Trade name:

Aerosil

Application of the substance/ the preparation:

Filler

BEIL

Kunststoffproduktions- und Handelsgesellschaft mbH

Lehmkuhlenweg 25

D- 31224 Peine

Telephone: +49 (0)5171/70 99-0

Telefax: +49 (0)5171/7099-29

E-Mail: service@beil-peine.de

Information in case of emergency:

Giftzentrale Göttingen

Tel.: +49 (0)551/19240

Telefax: +49 (0)551/3831881

2. Hazards Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not a hazardous substance according to Regulation (EC) No. 1272/2008

2.2. Label elements

Labelling as per(EU) 1272/2008

Statutory basis Labelling not according to EU-CLP Ordinance (1272/2008)

2.3. Other hazards

Not a PBT, vPvB substance as per the criteria of the REACH Regulation.

3. Composition/Information on Ingredients

3.1. Substances

Information on ingredients/ Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008

Silicon dioxide, chemically prepared

CAS-No. 112945-52-5

EC-No. 231-545-4

7631-86-9

Remarks

Not a hazardous substance or mixture.

Text of H phrases, see in chapter 16

3.2. Mixtures

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4. First-Aid Measures

4.1. Description of first aid measures

Inhalation

In case product dust is released: Possible discomfort: cough, sneezing Move victims into fresh air.

Skin contact

Wash off with plenty of water and soap.

Eye contact



Possible discomfort is due to foreign substance effect.
Rinse thoroughly with plenty of water keeping eyelid open.
In case of persistent discomfort: Consult an ophthalmologist.

Ingestion

Clean mouth with water and drink afterwards plenty of water.
After absorbing large amounts of substance/ In case of discomfort: Supply with medical care.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms

None known

Hazards

None known

4.3. Indication of any immediate medical attention and special treatment needed

No further which require special first aid measures.

5. Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing agents

Water spray, foam, CO₂, dry powder. Adapt fire extinguishing measures to surroundings.

Unsuitable extinguishing media

Do not use full force water jet in order to avoid dispersal and spread of the fire.

5.2. Special hazards arising from the substance or mixture

None known

5.3. Advice for firefighters

Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

6.2. Environmental precautions:

Do not allow entrance in sewage water, soil stretches of water, groundwater or drainage systems.

6.3. Methods and material for containment and cleaning up:

Sweep up or vacuum up spillage and collect in suitable container for disposal.

6.4. Reference to other sections

Wear personal protective equipment; see section 8.

Disposal considerations; see section 13.

7. Handling and Storage

Handling

7.1. Precautions for safe handling

If necessary: Local ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion:

Take precautionary measure against static discharges.

Storage

Keep in dry place.

7.3. Specific end use(s) No further relevant information available.

8. Exposure Controls/Personal Protection

Additional information about design of technical systems: No further data; see item 7.

8.1. Control parameters

8.2. Exposure controls

Personal protective equipment



Respiratory protection No special protective equipment required.

If dust occurs: Dust mask with P2 particle filter

Hand protection

Wear protective gloves made of the following materials: material, rubber, leather.

The material thickness and rupture time data do not apply to non -solute solids / dusts.

Eye protection:

Safety glasses with side shields

Skin and body protection:

No special protective equipment required.

Preventive skin protection

Hygiene measures:

When using, do not eat, drink or smoke. Wash face and/ or hands before break and end of work.

To ensure ideal skin protection: use super fatted soaps and skin cream for skin care.

Wash contaminated clothing before re-use.

Protective measures:

Handle in accordance with good industrial hygiene and safety practice.

If there is the possibility of skin/eye contact, the indicated hand/eye/ body protection should be used.

If workplace exposure limits are exceeded and/or larger amounts are released (leak age, spilling, dust) the indicated respiratory protection should be used.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance:

Form:	powder
Colour:	white
Physical state:	solid
Odour:	odourless
Odour threshold:	not applicable
pH:	3,7-4,5 (40g/l) (20°C) suspension
Melting point/Melting range:	ca. 1700°C
Boiling point/Boiling range:	not determined
Flash point:	not applicable solid
Evaporation rate:	not applicable
Flammability (solid, gas):	not applicable
Lower explosion limit:	not applicable
Upper explosion limit:	not applicable
Vapour pressure:	not applicable
Vapour density:	not applicable
Density:	ca. 22 g/cm ³ (20°C)
Water solubility:	> 1mg/l
Partition coefficient n-octanol/ water:	not applicable
Autoflammability:	not applicable
Thermal decomposition:	2000°C
Viscosity, dynamic:	not applicable solid
Explosivness:	Not to be expected in view of the structure
Oxidizing properties:	Not to be expected in view of the structure
9.2. Other information	
Ignition temeratur:	Not applicable
Minimum ignition temperature:	Not applicable
Tapped density:	ca. 50 g/l
	Method: DIN / ISO 787/11

10. Stability and Reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

**10.2. Chemical stability**

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions: No hazardous reactions are known if properly handled and stored.

10.4. Conditions to avoid No dangerous reaction known under conditions of normal use.

10.5. Incompatible materials: None known.

10.6. Hazardous decomposition products:

None known. Stable under normal conditions.

Product will not undergo hazardous polymerization.

11. Toxicological Information**11.1. Information on toxicological effects****Acute oral toxicity:**

LD 50 Rat: > 3300 mg/kg

No deaths occurred.

LD 50 Rat: > 5000 mg/kg

Method: OECD Test Guideline 401

Comparable product

Acute inhalation toxicity:

LC 0 Rat: 0,139 mg/l / 4h

Method: analogous OECD method

(maximum concentration attainable in experiments)

No death occurred.

Acute dermal toxicity:

LD 50 Rabbit: > 5000 mg/kg

Comparable product

Skin irritation:

Rabbit

Not irritating

Method: analogous OECD method

Eye irritation:

Rabbit

Not irritating

Method: analogous OECD method

Sensitization:

no known

Assessment of STOT single exposure:

not evidence for hazardous properties

Assessment of STOT repeat exposure:

not evidence for hazardous properties

Risk of aspiration toxicity:

No aspiration toxicity classification

Mutagenicity assessment:

No evidence of mutagenic effects

Carcinogenicity:

No evidence that cancer may be caused

Toxicity to reproduction:

No evidence of reproduction toxic properties

Human experience:

Silicosis or other product specific illness of the respiratory tract were not observed in association with the product.

Further information:

The classification criteria are not met based on the available data.

12. Ecological Information**12.1. Toxicity**

No ecotoxicological data is available for this product.

Toxicity to fish:

LD 50 (Brachydanio rerio): >10000 mg/l / 96h

Method: OECD 203

The reported toxic effects relate to the nominal concentration.

Toxicity in aquatic invertebrates:

EC 50 Daphnia magna: >1000 mg/l / 24h

Method: OECD 202

The reported toxic effects relate to the nominal concentration.

**12.2. Persistence and degradability**

Not easily biodegradable

Behaviour in environmental systems:**12.3. Bioaccumulative potential** No further relevant information available.**12.4. Mobility in soil** No further relevant information available.**Ecotoxicological effects:****Remark:** Toxic for fish**Additional ecological information:****General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

12.5. Results of PBT and vPvB assessment**PBT:** PBT - assessment not available.**vPvB:** vPvB - assessment not available.**12.6. Other adverse effects** No further relevant information available.**13. Disposal Considerations****13.1. Waste treatment methods****Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:**Recommendation:** Disposal must be made according to official regulations**Recommended cleansing agent:** Water, if necessary with cleansing agents.**14. Transport Information****14.1. UN-Number****ADR, IMDG, IATA**

UN3082

ADN

Void

14.2. UN proper shipping name**ADR**

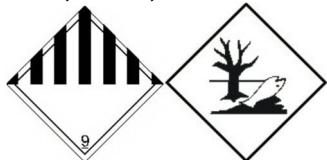
3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700))

ADN

Void

IMDG, IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700))

14.3. Transport hazard class(es)**ADR, IMDG, IATA****Class**

9 Miscellaneous dangerous substances and articles.

Label

9

ADN/R Class:

Void

14.4. Packing group**ADR, IMDG, IATA**

III

14.5. Environmental hazards:**Marine pollutant:**

Yes



Special marking (ADR):	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)
14.6. Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
Danger code (Kemler):	90
EMS Number:	F-A,S-F
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Tunnel restriction code	E
UN "Model Regulation":	UN 3082 , ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

15. Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Abbreviations and acronyms:

PBT: persistent, bioaccumulative, toxic substance (REACH)

vPvB: very persistent, very bioaccumulative substance (REACH)

REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

CLP: Regulation on classification, labelling and packaging of substances and mixtures

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent