

Product name: **ACEMATT® 3600**

SAFETY DATA SHEET

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name:
ACEMATT® 3600

Chemical name:
Mixture of silicon dioxide and silicon polyether acrylic acid

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Coating agent

Uses advised against: Not determined.

1.3 Details of the supplier of the safety data sheet

Company Name : Evonik Operations GmbH
Rellinghauser Str. 1-11
45128 Essen
Germany

Telephone : +49 6181 59 4787

E-mail : sds-hu@evonik.com

1.4 Emergency telephone number:

24-Hour Health : +49 7623 919191
Emergency

National Poison Information Service (NPIS)
England, Scotland and Wales: NHS: 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567
Not classified

2.2 Label Elements Not applicable

Product name: ACEMATT® 3600

2.3 Other hazards

PBT/vPvB data

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

Chemical name:

Mixture of silicon dioxide and silicon polyether acrylic acid

3.2 Mixtures

Chemical name	Concentration	CAS-No.	EC No.	UK-REACH Registration No.	REACH Registration No.	M-Factor:	Notes
Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9)	50 - <100%	112926-00-8	231-545-4	UK-01-250993046 1-7	01-211937949 9-16	No data available.	#

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

This substance is listed as SVHC.

Classification

Chemical name	Classification	Notes
Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9)	Classification: None known. Supplemental label information: None known.	Not applicable

The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation:	In case product dust is released: Possible discomfort: cough, sneezing Move to 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.

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Personal Protection for First-aid Responders: No data available.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: None known.

Hazards: None known.

4.3 Indication of immediate medical attention and special treatment needed

Treatment: No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray, foam, CO₂, dry powder. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture:

May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition.

5.3 Advice for firefighters

Special fire fighting procedures: 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.

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Use personal protective equipment.

6.1.1 For non-emergency personnel: No data available.

6.1.2 For emergency responders: No data available.

6.2 Environmental Precautions: Do not allow entrance in sewage water, soil stretches of water, groundwater, 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: For personal protection see section 8. For disposal considerations see section 13.

SECTION 7: Handling and storage

Product name: **ACEMATT® 3600**

7.1 Precautions for safe handling

Technical measures:	Ensure suitable suction/aeration at the work place and with operational machinery. Local ventilation if necessary.
Local/Total ventilation:	No data available.
Safe handling advice:	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 (leakage, spilling, dust) the indicated respiratory protection should be used. If necessary: Local ventilation.
Contact avoidance measures:	No data available.

7.2 Conditions for safe storage, including any incompatibilities

Safe storage conditions:	Keep in a dry place. Take precautionary measures against static discharges.
Safe packaging materials:	No data available.

7.3 Specific end use(s): Applications; see Section 1. No further information available

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Type	Form of exposure	Exposure Limit Values		Source
Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9)	TWA	Inhalable dust.		6 mg/m ³	EH40 WEL (12 2011)
	TWA	Respirable dust.		2.4 mg/m ³	

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

DNEL-Values

Critical component	Type	Route of Exposure	Health Warnings	Remarks
Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9)	Workers	Inhalation	Systemic, long-term; 4 mg/m ³	respiratory tract irritation
	Workers	Eyes	Local effect;	No data available
	Workers	Eyes	Local effect;	Low hazard (no threshold derived)
	General population	Eyes	Local effect;	No data available
	General population	Eyes	Local effect;	Low hazard (no threshold derived)

8.2 Exposure controls

Product name: ACEMATT® 3600

Appropriate Engineering Controls: Ensure suitable suction/aeration at the work place and with operational machinery. Local ventilation if necessary. see also section 7.

Individual protection measures, such as personal protective equipment

Eye/face protection: Safety glasses with side shields If dust occurs: basket-shaped glasses

Hand Protection: Additional Information: Wear protective gloves made of the following materials: material, rubber, leather.
 Additional Information: The data about break through time/strength of material is not valid for undissolved solids/dust.

Skin and Body Protection: No special protective equipment required. Preventive skin protection

Respiratory Protection: No special protective equipment required. If dust occurs: Dust mask with P2 particle filter

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 reuse.

Environmental Controls: see section 6.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
Appearance

Physical state:	solid
Form:	Powder
Color:	White
Odor:	Odorless
Odor Threshold:	Not applicable
Melting Point:	Approximate 1,700 °C
Boiling Point:	No data available.
Flammability:	Not applicable
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	Not applicable
Explosive limit - lower:	Not applicable
Flash Point:	Not applicable
Auto-ignition temperature:	Not applicable
Decomposition Temperature:	> 150 °C
pH:	Approximate 6.6 at 20 °C Method: DIN / ISO 787 / 9 Concentration: 50 g/l 1: 1 in suspension

Product name: ACEMATT® 3600**Viscosity****Dynamic viscosity:** Not applicable solid**Kinematic viscosity:** Not applicable solid**Solubility(ies)****Solubility in Water:** hardly soluble**Partition coefficient (n-octanol/water):** Not applicable**Vapor pressure:** Not applicable**Relative density:** No data available.**Density:** Approximate
2 g/cm³ at 20 °C
Method: DIN / ISO 787 / 10**Vapor density (air=1):** No data available.**9.2 Other information****Self-ignition:** Not applicable**Peroxides:** Not applicable**Evaporation Rate:** Not applicable**Minimum ignition energy:** Not applicable**SECTION 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:** No hazardous reactions are known if properly handled and stored.**10.4 Conditions to avoid:** With heating > 150 °C, organic modification is destroyed.**10.5 Incompatible Materials:** None known.**10.6 Hazardous Decomposition Products:** Carbon Monoxide. Carbon Dioxide. organic products of decomposition Stable under normal conditions. Product will not undergo hazardous polymerization.**SECTION 11: Toxicological information****General information:** Silicosis or other product specific illnesses of the respiratory tract were not observed in association with the product.**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure****Inhalation:** Information on effects are given below.**Skin Contact:** Information on effects are given below.**Eye contact:** Information on effects are given below.

Product name: ACEMATT® 3600

Ingestion: Information on effects are given below.

Acute toxicity (list all possible routes of exposure)

Oral

Product: Not classified for acute toxicity based on available data.

Components:

Silicon dioxide, LD 50, Rat, Female, Male, > 5,000 mg/kg, OECD 401
chemically prepared
(CAS 112926-00-8 resp.
7631-86-9)

Dermal

Product: Not classified for acute toxicity based on available data.

Components:

Silicon dioxide, LD 50, Rabbit, > 5,000 mg/kg
chemically prepared
(CAS 112926-00-8 resp.
7631-86-9)

Inhalation

Product: Not classified for acute toxicity based on available data.

Components:

Silicon dioxide, LC 50, Rat, Female, Male, 4 h, > 5.01 mg/l, Dust and mist, OECD 436
chemically prepared Vapour, Not toxic after single exposure, Not applicable
(CAS 112926-00-8 resp.
7631-86-9)

Repeated dose toxicity

Product: no evidence for hazardous properties tested substance: silica

Components:

Silicon dioxide, NOAEL Rat, Male, Oral, 28 day, 7 days a week, >= 1,000 mg/kg, No
chemically prepared negative effects.
(CAS 112926-00-8 resp.
7631-86-9)

Skin Corrosion/Irritation

Product: Not irritating, Based on available data, the classification criteria are not met.

Components:

Silicon dioxide, chemically Not irritating, OECD 404, Rabbit
prepared (CAS 112926-
00-8 resp. 7631-86-9)

Serious Eye Damage/Eye Irritation

Product: Not irritating, Based on available data, the classification criteria are not met.

Components:

Silicon dioxide, chemically Not irritating, analogous OECD method, Rabbit
prepared (CAS 112926-
00-8 resp. 7631-86-9)

Respiratory or Skin Sensitization

Product: Not known.

Components:

Silicon dioxide, chemically Local Lymph Node Assay (LLNA), OECD 429, Mouse, Not a skin
prepared (CAS 112926- sensitizer.
00-8 resp. 7631-86-9) Maximization Test, OECD 406, Guinea Pig, Not a skin sensitizer.

Carcinogenicity

Product name: ACEMATT® 3600

Product: No evidence that cancer may be caused.

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) No evidence that cancer may be caused.

Germ Cell Mutagenicity

no evidence of mutagenic effects

In vitro

Product: No data available.

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) gene mutation test, OECD 471: , negative
gene mutation test, OECD 490: , negative
Chromosomal aberration, OECD 473: , negative

In vivo

Product: No data available.

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) Chromosomal aberration, OECD 475, Oral, Rat, Male, negative

Reproductive toxicity

Product: no evidence of reproductiontoxic properties

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) no evidence of reproductiontoxic properties

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) no evidence for hazardous properties

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) no evidence for hazardous properties

Aspiration Hazard

Product: No data available.

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) Not applicable

11.2 Information on other hazards

Other information

Product: No results of animal experiments with the product available.; An Expert Judgment stated that no classification is necessary based on present knowledge.;

Product name: **ACEMATT® 3600**

SECTION 12: Ecological information

12.1 Toxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) LC 50, (Brachydanio rerio), 96 h, > 10,000 mg/l OECD 203, The reported toxic effects relate to the nominal concentration.

Aquatic Invertebrates

Product: No data available.

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) EC 50, Daphnia magna, 24 h, > 1,000 mg/l OECD 202, The reported toxic effects relate to the nominal concentration.

Toxicity to Aquatic Plants

Product: No data available.

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) EC 50 (Desmodesmus subspicatus (green algae), 72 h): > 173 mg/l (OECD 201)

Toxicity to microorganisms

Product: No data available.

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) EC 50, local activated sludge, 3 h, > 2,500 mg/l, OECD 209

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) No data available.

Aquatic Invertebrates

Product: No data available.

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) No data available.

Product name: ACEMATT® 3600

Toxicity to Aquatic Plants

Product: No data available.

Components:
Silicon dioxide, No data available.
chemically prepared
(CAS 112926-00-8 resp.
7631-86-9)

Toxicity to microorganisms

Product: No data available.

Components:
Silicon dioxide, EC 50, local activated sludge, 3 h, > 2,500 mg/l, OECD 209
chemically prepared
(CAS 112926-00-8 resp.
7631-86-9)

12.2 Persistence and Degradability

Biodegradation

Product: The methods designed to assess persistence and biodegradability are not applicable to this product, in analogy to inorganic substances.

Components:
Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:
Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) Not to be expected.

Partition Coefficient n-octanol / water (log Kow)

Product: Not applicable

Components:
Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) , Not applicable

12.4 Mobility in soil:

Product No data available.

Components:
Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) No remarkable mobility in soil is to be expected.

12.5 Results of PBT and vPvB assessment:

Product This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:
Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) No data available.

Product name: **ACEMATT® 3600**

12.6 Other adverse effects:

Other hazards

Product: An Expert Judgment stated that no classification is necessary based on present knowledge.

Additional Information: No ecotoxicological data is available for this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: No data available.

Disposal methods: Review all local, state and federal regulations concerning health and pollution for appropriate disposal procedures. No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer. The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.

Contaminated Packaging: Offer rinsed packaging material to local recycling facilities.
Other countries: observe the national regulations.

SECTION 14: Transport information

14.1 UN/ID No.

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

EU Regulations

Product name: ACEMATT® 3600

EU. REACH Annex XIV, Substances Subject to Authorization: None present or none present in regulated quantities.

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): None present or none present in regulated quantities.

UK EXP1: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities.

UK EXP2: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities.

UK EXP3: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities.

UK BAN: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities.

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: Not applicable

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

SECTION 16: Other information

Abbreviations and acronyms:

EH40 WEL: UK. EH40 Workplace Exposure Limits (WELs), as amended
EH40 WEL / TWA: Time Weighted Average (TWA):

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EIGA - European Industrial Gases Association; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation

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Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Notes:

Not applicable	Not applicable
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Key literature references and sources for data: No data available.

Wording of the statements in section 2 and 3

: none

Training information: No data available.

Revision Information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Disclaimer:

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.