1. Identification

1.1. Product identifier

Trade name: ACEMATT® 3600

1.2. Recommended use of the chemical and restrictions on use

Relevant applications identified: Coating agent

1.3. Details of the supplier of the safety data sheet

Company: Evonik Corporation USA
299 Jefferson Road
Parsippany,NJ 07054-0677
USA

Telephone: 973-929-8000

Telefax: 973-929-8040

Email address: Product-Regulatory-Services@Evonik.com

1.4. 24 HOUR EMERGENCY TELEPHONE NUMBERS:

CHEMTREC - US & CANADA: 800-424-9300

CHEMTREC MEXICO: 01-800-681-9531

CHEMTREC INTERNATIONAL: +1 703-527-3887 **(collect calls accepted)**

Product Regulatory Services : 973-929-8060

2. Hazards identification

2.1. Classification of the substance or mixture

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Remarks: Not a hazardous substance or mixture.

2.2. Label elements

Statutory basis: Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Remarks: Not a hazardous substance or mixture.

2.3. Other hazards

None known

Silicon dioxide, chemically prepared A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

3. Composition/information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

• **Silicon dioxide, chemically prepared**	
CAS-No.	112926-00-8
Remarks	Not a hazardous substance or mixture.
• **Siliconepolyetheracrylates**	
Remarks	Not a hazardous substance or mixture.

Other information

A new CAS , 112926-00-8, has been assigned to Amorphous Precipitated Silica to distinguish it from crystalline. According to EPA this product meets TSCA requirements and is listed on the TSCA Inventory as Silica, CAS 7631-86-9.

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 soap and plenty of water.

Eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes or until all material has been removed. Obtain medical attention.

Ingestion

If accidentally swallowed, rinse mouth thoroughly with water and afterwards, drink plenty of water. In case of discomfort, obtain medical attention.

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

Symptoms

None known

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

No hazards which require special first aid measures.

5. Fire-fighting 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

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.
As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment.

6.2. Environmental precautions

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

6.3. Methods and material for containment and cleaning up

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

7. Handling and storage

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 measures against static discharges.

Storage

Keep in a dry place.

German storage class

Combustible / non-combustible liquids and solids not assigned to other storage classes.

8. Exposure controls/personal protection

8.1. Control parameters

- **Silicon dioxide, chemically prepared**

CAS-No.	112926-00-8 7631-86-9	
Control parameters	6 mg/m3	Recommended exposure limit (REL):(NIOSH)

8.2. Exposure controls

Personal protective equipment

Respiratory protection

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

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.
The above mentioned hand protection is based on knowledge of the chemistry and anticipated uses of this product but it may not be appropriate for all workplaces. A hazard assessment should be conducted prior to use to ensure suitability of gloves for specific work environments and processes prior to use.

Eye protection
Safety glasses with side-shields
If dust occurs: basket-shaped glasses
Wear safety glasses with side shields. In case dusts are formed, wear close fitting protective goggles.

Skin and body protection
A safety shower and eye wash fountain should be readily available.
To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

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 (leakage, spilling, dust) the indicated respiratory protection should be used.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

physical state	solid		
Colour	white		
Form	powder		
Odour	odourless		
Odour Threshold	not applicable		
pH	ca. 6.6	(50 g / l)	(20 °C)
	Medium:	water / methanol	
	Method:	DIN / ISO 787 / 9	
	1: 1 in suspension		
Melting point/range	ca. 1700 °C		
Boiling point/range	not determined		
Flash point	not applicable		
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. 2 g/cm3	(20 °C)	
	Method:	DIN / ISO 787 / 10	

Water solubility	hardly soluble
Partition coefficient: n-octanol/water	not applicable
Autoignition temperature	not applicable
Thermal decomposition	> 150 °C
Viscosity, dynamic	not applicable

9.2. Other information

Explosiveness	not determined
Minimum ignition energy	not applicable
Tapped density	ca. 130 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: See Sect. 10.1 Reactivity.

10.4. Conditions to avoid
With heating > 150 °C, organic modification is destroyed.

10.5. Incompatible materials
None known.

10.6. Hazardous decomposition products
decomposition products with heating above decomposition temperature
Carbon monoxide, Carbon dioxide (CO2), organic products of decomposition

11. Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity: LD50 Rat: > 5000 mg/kg
Test substance: Silicon dioxide, derived from chemical synthesis
literature

Acute inhalation toxicity: LC0 Rat: 0.139 mg/l / 4 h
Test substance: Silicon dioxide, derived from chemical synthesis
(maximum concentration attainable in experiments)
No deaths occurred.
literature

Acute dermal toxicity	LD50 Rabbit: > 5000 mg/kg Test substance: Silicon dioxide, derived from chemical synthesis literature
Skin irritation	Rabbit not irritating Test substance: Silicon dioxide, derived from chemical synthesis literature
Eye irritation	Rabbit not irritating Test substance: Silicon dioxide, derived from chemical synthesis literature
Sensitization	not known
Repeated dose toxicity	Oral Test substance: Silicon dioxide, derived from chemical synthesis no evidence for hazardous properties inhalative Test substance: Silicon dioxide, derived from chemical synthesis no evidence for hazardous properties
Mutagenicity assessment	no evidence of mutagenic effects
Carcinogenicity	No evidence that cancer may be caused.
carcinogenicity assessment	Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA.
Toxicity to reproduction	no evidence of reproductiontoxic properties
Further information	No results of animal experiments with the product available.

12. Ecological information

12.1. Toxicity

No ecotoxicological data is available for this product.

Toxicity to fish	LC50 (Brachydanio rerio): > 10000 mg/l / 96 h Test substance: Silicon dioxide, derived from chemical synthesis Method: OECD 203 The reported toxic effects relate to the nominal concentration.
Toxicity in aquatic invertebrates	EC50 Daphnia magna: > 10000 mg/l / 24 h Test substance: Silicon dioxide, derived from chemical synthesis Method: OECD 202 The reported toxic effects relate to the nominal concentration.

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

Bioaccumulation: No data available

12.4. Mobility in soil

Mobility: no data available.

12.5. Other adverse effects

Further Information: The data we have at our disposal do not necessitate identification concerning environmental hazard.

13. Disposal considerations

13.1. Waste treatment methods

Product

Waste must be disposed of in accordance with federal, state, provincial and local regulations.

Uncleaned packaging

Packaging material should be recycled or disposed of in accordance with federal, state and local regulations.

14. Transport information

Not dangerous according to transport regulations.

14.1.	UN number:	--
14.2.	UN proper shipping name:	--
14.3.	Transport hazard class(es):	--
14.4.	Packing group:	--
14.5.	Environmental hazards (Marine pollutant):	--
14.6.	Special precautions for user:	Yes

Not dangerous according to transport regulations.

15. Regulatory information

US Federal Regulations

OSHA

If listed below, chemical specific standards apply to the product or components:

- None listed

Clean Air Act Section (112)

If listed below, components present at or above the de minimus level are hazardous air pollutants:

- None listed

CERCLA Reportable Quantities

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

- None listed

SARA Title III Section 311/312 Hazard Categories

The product meets the criteria only for the listed hazard classes:

- No SARA Hazards

SARA Title III Section 313 Reportable Substances

If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

- None listed

Toxic Substances Control Act (TSCA)

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

- None listed

State Regulations

California Proposition 65

A warning under the California Drinking Water Act is required only if listed below:

- None listed

An employer using HMIS/NFPA labeling must through training ensure that its employees are fully aware of the hazards of the chemicals used.

NFPA Ratings

Health :	1
Flammability :	0
Reactivity :	0

16. Other information

Further information

Revision date 04/30/2016

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

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Legend

ACC	American Chemistry Council
ACGIH	American Conference of Governmental Industrial Hygenists
ACS	Advisory Committee on Sustainability
ADI	Acceptable Daily Intake
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BOD	Biochemical oxygen demand
c.c.	closed cup
CAO	Cargo Aircraft Only
Carc	Carcinogen
CAS	Chemical Abstract Services
CDN	Canada
CEPA	Canadian Environmental Protection Act
CERCLA	Comprehensive Environmental Response – Compensation and Liability Act
CFR	Code of Federal Regulations
CMR	carcinogenic-mutagenic-toxic for reproduction
COD	Chemical oxygen demand
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
DOT	Department of Transportation
EC50	half maximal effective concentration
EPA	Environmental Protection Agency
ErC50	Reduction of Growth Rate
ERG	Emergency Response Guide Book
FDA	Food and Drug Administration
GHS	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
HCS	Hazard Communication Standard
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO-TI	International Civil Aviation Organization- Technical Instructions
ICCA	International Council of Chemical Association
ID	Identification number
IMDG	International Maritime Dangerous Goods
IUPAC	International Union of Pure and Applied Chemistry
ISO	International Organization For Standardization
LC50	50 % Lethal Concentration
LD50	50 % Lethal Dose

L(E)C50	LC50 or EC50
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
MARPOL	International Convention for the Prevention of Pollution from Ships
NFPA	National Fire Protection Association
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
RQ	Reportable Quantity
SDS	Safety Data Sheet
STOT	Specific Target Organ Toxicity
UN	United Nations
vPvB	very persistent, very bioaccumulative
voc	volatile organic compounds
WHMIS	Workplace Hazardous Materials Information System
WHO	World Health Organization