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

1.1. Product identifier

Trade name	AEROSIL® 380
Chemical Name	Silicon dioxide, chemically prepared
CAS-No.	112945-52-5, 7631-86-9
REACH Registration No.::	01-2119379499-16-0000 (TPR)

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

Relevant applications identified	Sealants Coloured printing inks Paints and varnishes. Adhesive Silicone rubber
Function	Anticaking agent Antiblocking agents Coating agent Dispersing agent Flow-promoting agent. Reinforcing agent. Carrier

1.3. Details of the supplier of the safety data sheet

Company	Evonik Resource Efficiency GmbH RE-ES-PS Hanau Postfach 1345 D-63403 Hanau
Telephone	+49 (0)6181 59-4787
Telefax	+49 (0)6181 59-4205
E-mail address	sds-hu@evonik.com

1.4. Emergency telephone number

Emergency information	+49 (0)7623-919191 (Interpreting service available)

SECTION 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 required according to EU-CLP Ordinance (1272/2008).

2.3. Other hazards

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

SECTION 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 7631-86-9	EC-No.	231-545-4
Remarks	Not a hazardous substance or mixture.		

Texts of H phrases, see in Chapter 16

3.2. Mixtures

–

SECTION 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 hazards which require special first aid measures.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:	Water spray, foam, CO_2, 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.

SECTION 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, 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.

SECTION 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.

7.3. Specific end use(s)

Applications; see Section 1.
No further information available

SECTION 8: Exposure controls/personal protection

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
If dust occurs: basket-shaped glasses

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

SECTION 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 (40 g / l) (suspension)	(20 °C)
Melting point/range	ca. 1700 °C	
Boiling point/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. 2,2 g/cm3	(20 °C)
Water solubility	> 1 mg/l	
Partition coefficient: n-octanol/water	not applicable	
Autoinflammability	not applicable	
Thermal decomposition	> 2000 °C	
Viscosity, dynamic	not applicable solid	
Explosiveness	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 temperature	not applicable
Minimum ignition energy	not applicable
Tapped density	ca. 50 g / l Method: DIN / ISO 787/11

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
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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

No toxicological tests are available on the product.

Acute oral toxicity	LD50 Rat: > 5000 mg/kg Method: OECD Test Guideline 401 comparable product Based on available data, the classification criteria are not met.
Acute inhalation toxicity	LC0 Rat: 0,139 mg/l / 4 h Method: analogous OECD method (maximum concentration attainable in experiments) No deaths occurred. comparable product Based on available data, the classification criteria are not met.
Acute dermal toxicity	LD50 Rabbit: > 5000 mg/kg comparable product Based on available data, the classification criteria are not met.
Skin irritation	Rabbit not irritating Method: analogous OECD method comparable product Based on available data, the classification criteria are not met.
Eye irritation	Rabbit not irritating Method: analogous OECD method comparable product Based on available data, the classification criteria are not met.
Sensitization	not known
Assessment of STOT single exposure	no evidence for hazardous properties
Assessment of STOT repeat	no evidence for hazardous properties

exposure	
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 reproductiontoxic properties
Human experience	Silicosis or other product specific illnesses of the respiratory tract were not observed in association with the product.
Further information	An Expert Judgment stated that no classification is necessary based on present knowledge.

SECTION 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 Method: OECD 203 The reported toxic effects relate to the nominal concentration.
Toxicity in aquatic invertebrates	EC50 Daphnia magna: > 1000 mg/l / 24 h Method: OECD 202 The reported toxic effects relate to the nominal concentration.

12.2. Persistence and degradability

Biodegradability	The methods for determining biodegradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

Bioaccumulation	Not to be expected.

12.4. Mobility in soil

Mobility	No remarkable mobility in soil is to be expected.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Further Information	An Expert Judgment stated that no classification is necessary based on present knowledge.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product

Can be disposed of with domestic refuse in accordance with the necessary technical regulations following consultation with waste disposal expert(s) and the responsible authorities.

Uncleaned packaging

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

Waste Key Number

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.

SECTION 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:	--
14.6	Special precautions for user:	No

SECTION 15: Regulatory information

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

National legislation

Major Accident Hazard Legislation	Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. listing: not applicable

15.2. Chemical safety assessment

Chemical safety assessment	No exposure or risk assessment is required for this product since it is not classified for health or environmental risks.

SECTION 16: Other information

Further information

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

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.

Legend

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ASTM	American Society for Testing and Materials

ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
ISO	International Organization For Standardization
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
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
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization