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1. Identification

1.1. Product identifier

	Trade name	AEROSIL® 200
	Chemical Name CAS-No.	Silicon dioxide, chemically prepared 112945-52-5, 7631-86-9
1.2.	Recommended use of the	e chemical and restrictions on use
	Relevant applications identified	Sealants Coloured printing inks Paints and varnishes. Adhesive Silicone rubber Cosmetic ingredient Cosmetics Agrochemicals 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 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 T	ELEPHONE 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
•	l la navda i da utification	

- 2. Hazards identification
- 2.1. Classification of the substance or mixture

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Classification according to Regulation 29CFR 1910.1200 Remarks Not a hazardous substance or mixture.

2.2. Label elements

Statutory basis	Classification according to Regulation 29CFR 1910.1200
Remarks	Not a hazardous substance or mixture.

2.3. Other hazards

Silicon dioxide, chemically preparedNot a PBT, vPvB substance as per the criteria of the REACH Regulation.

3. Composition/information on ingredients

3.1. Substances

Silicon	dioxide, chemically prepared	100%		
CAS-No.	112945-52-5			
Remarks	Not a hazardous substand	ce or mixture.		
	farmer a ffarm			

Other information

A new CAS, 112945-52-5, has been assigned to amorphous, fumed silica to distinguish it from crystalline silica. According to the EPA, this product meets TSCA requirements and is listed on the TSCA inventory as silica with CAS 7631-86-9.

3.2. Mixtures

not applicable

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

Symptom s

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

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5.1. Extinguishing media

Suitable extinguishing media: 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

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 Use 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. 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.

7. Handling and storage

7.1. Precautions for safe handling Use with adequate 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 containers tightly closed in a dry, cool place.

8. Exposure controls/personal protection

8.1. Control parameters

Silicon dioxide	e, chemically prepared	
CAS-No. Control parameters	112945-52-5 7631-86-9 20millions of particles per cubic foot of air	Time Weighted Average (TWA):(Z3)
Control parameters	0.8 mg/m3 The exposure limit is calculated f Lower values of % SiO2 will give	Time Weighted Average (TWA):(Z3) rom the equation, 80/(%SiO2), using a value of 100% SiO2. higher exposure limits.

8.2. Exposure controls

Personal protective equipment

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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

Use impermeable gloves.

Eye protection

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 the workplace threshold limit value is exceeded and/or the substance is released, use appropriate respiratory protection.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

physical state Colour Form Odour	solid white powder odorless
Odour Threshold	not applicable
рН	3.7 - 4.5 (40 g / l) (20 °C) (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

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	Vapour density	not applicable		
	Density	ca. 2.2 g/cm3	(20 °C)	
	Water solubility	> 1 mg/l		
	Partition coefficient: n-	not applicable		
	octanol/water Autoignition temperature	not applicable		
	Thermal decomposition	> 2000 °C		
	Viscosity, dynamic	not applicable		
9.2.	Other information Explosiveness	Not to be expected in vie	w of the structure	
	Minimum ignition energy	not applicable		
	Tapped density	ca. 50 g / I Method: DIN / ISO 78	87/11	
10.	Stability and reactivity			
10.1.		nown under conditions of r	normal use.	
10.2.	Chemical stability Stable under recommend	led storage conditions.		
10.3.	Possibility of hazardou Possibility of hazardous reactions	s reactions See Sect. 10.1 Reactivity	·.	
10.4.	Conditions to avoid No dangerous reaction k Operations that create du	nown under conditions of r ust.	normal use.	
10.5.	Incompatible materials None known.			
	Hazardous decomposit	ion products		
10.6.	None known.			

11.1. Information on toxicological effects

Acute oral toxicity

LD50 Rat: > 3300 mg/kg No deaths occurred.

LD50 Rat: > 5000 mg/kg

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	Method: OECD comparable product	Test Guideline 401	
Acute inhalation toxicity	LC0 Rat: 0.139 mg/l / 4 Method: analogo (maximum concentratic No deaths occurred.	ous OECD method	nents)
Acute der mal toxicity	LD50 Rabbit: > 5000 m comparable product	ng/kg	
Skin irritation	Rabbit not irritating Method: analogo	ous OECD method	
Eye irritation	Rabbit not irritating Method: analogo	ous OECD method	
Sensitization	not known		
Repeated dose toxicity	Oral No negative effects.		
	Inhalation No irreversible changes	and no indication of s	ilicosis.
Assessment of STOT single	no evidence for hazard	ous properties	
exposure Assessment of STOT repeat	no evidence for hazard	ous properties	
exposure Risk of aspiration toxicity	No aspiration toxicity cl	assification	
Mutagenicity assessment	no evidence of mutager	nic effects	
	No evidence of mutage	nic effects reported in	literature.
Carcinogenicity	No negative effects.		
carcinogenicity assessment	Contains no carcinoger OSHA.	nic substances as defir	ned by NTP, IARC and/or
Toxicity to reproduction	No negative effects.		
Human experience	Silicosis or other produce been reported.	ct specific illnesses of	the respiratory tract have n

12. Ecological information

12.1. Toxicity

Toxicity to fish

LC50 (Brachydanio rerio): > 10000 mg/l / 96 h Method: OECD 203 The reported toxic effects relate to the nominal concentration.

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	Toxicity in aquatic	EC50 Daphnia magna:	⊳ 1000 mg/l / 24 h	
	invertebrates	Method: OECD 202		
		The reported toxic effe	cts relate to the nominal	concentration.
12.2.	Persistence and degrad			
	Biodegradability	The methods for detern inorganic substances.	mining biodegradability a	are not applicable to
12.3.	Bioaccumulative potent			
	Bioaccumulation	Not to be expected.		
10 /	Mobility in soil			
12.4.	Mobility in soil Mobility	No remarkable mobility	in soil is to be expected	J.
12.5.	Other adverse effects			
	Further Information	The classification crite	ria are not met based or	the available data.
13.	Disposal consideration	s		
13.1.	Waste treatment metho	ds		
	Product			
	Troduct			
		of in accordance with fed	eral, state, provincial an	d local regulations.
	Waste must be disposed Uncleaned packaging			-
	Waste must be disposed Uncleaned packaging Packaging material shoul	of in accordance with fed d be recycled or disposed		-
	Waste must be disposed Uncleaned packaging			-
14.	Waste must be disposed Uncleaned packaging Packaging material shoul			-
14.	Waste must be disposed Uncleaned packaging Packaging material shoul regulations.			-
	Waste must be disposed Uncleaned packaging Packaging material shoul regulations.	d be recycled or disposed		-
	Waste must be disposed Uncleaned packaging Packaging material shoul regulations. Transport information	d be recycled or disposed		-
Not d 14.1.	Waste must be disposed Uncleaned packaging Packaging material shoul regulations. Transport information angerous according to t UN number:	d be recycled or disposed		-
Not d 14.1. 14.2.	Waste must be disposed Uncleaned packaging Packaging material shoul regulations. Transport information angerous according to t UN number: UN proper shipping name	d be recycled or disposed ransport regulations.		-
Not d 14.1. 14.2. 14.3.	Waste must be disposed Uncleaned packaging Packaging material shoul regulations. Transport information angerous according to t UN number: UN proper shipping name Transport hazard class(e	d be recycled or disposed ransport regulations.		-
Not d 14.1. 14.2. 14.3. 14.4.	Waste must be disposed Uncleaned packaging Packaging material shoul regulations. Transport information angerous according to t UN number: UN proper shipping name Transport hazard class(e Packing group: Environmental hazards (f	d be recycled or disposed ransport regulations.		-
Not d 14.1. 14.2. 14.3. 14.4. 14.5.	Waste must be disposed Uncleaned packaging Packaging material shoul regulations. Transport information angerous according to t UN number: UN proper shipping name Transport hazard class(e Packing group:	d be recycled or disposed ransport regulations. e: s): Marine		-

15. Regulatory information

US Federal Regulations

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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

The Listing requirements of the Right to Know (RTK) legislation varies by state. All information for NJ, PA, MA and other states can be derived from the listing of hazardous and non-hazardous components in section 2 and 15 of this MSDS.

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.

HMIS Ratings

Health :

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	Flammability: Physical Hazard:	0 0		
NFPA Rati	ngs			
	Health : Flammability : Reactivity :	1 0 0		

16. Other information

Further information

Revision date

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

04/30/2015

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L	egend	American Obernister Osumell
	ACC ACGIH	American Chemistry Council
	ACGIN	American Conference of Governmental Industrial Hygenists 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 CMR	Code of Federal Regulations
	COD	carcinogenic-mutagenic-toxic for reproduction 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 Grow th Rate
	ERG	Emergency Response Guide Book
	FDA	Food and Drug Administration
	GHS	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
	GLP GMO	Good Laboratory Practice
	HCS	Genetic Modified Organism 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 LC50	International Organization For Standardization 50 % Lethal Concentration
	LD50	50 % Lethal Dose
	L(E)C50	LC50 or EC50
		Low est observed adverse effect level
	LOEL	Low est 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
	0. C.	open cup Organisation for Featramia Connection and Development
	OECD OEL	Organisation for Economic Cooperation and Development 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

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voc WHMIS WHO volatile organic compounds Workplace Hazardous Materials Information System World Health Organization