SAFETY DATA SHEET

1. Identification

Product identifier: AEROSIL® E 9200

Other means of identification

Recommended use: Silicone rubber
Sealant
Paints and varnishes.
Adhesive
Coating agent
Toner

Recommended restrictions: Not determined.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Australia Pty Ltd
Suites 33&37
1 Ricketts Road
Mt Waverley, VIC 3149
Australia

Telephone : +61 3 8581 8400

Fax : +61 3 9544 5002

E-mail : sds-hu@evonik.com

Emergency telephone number:

24-Hour Health Emergency : +61 2 9037 2994

+1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Classification according to GHS

Not classified

Label Elements

Hazard Symbol: No symbol

Signal Word: No signal word.

Hazard Statement: Not applicable

Precautionary Statements Not applicable

Other hazards: No data available.

3. Composition/information on ingredients

Substances

General information: No hazardous ingredients.

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Silane, dichlorodimethyl-, reaction products with silica		68611-44-9	

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

The exact concentration has been withheld as a trade secret.

4. First-aid measures

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.

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

Most important symptoms and effects, both acute and delayed

Symptoms: None known.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, foam, CO2, dry powder.

Unsuitable extinguishing media: Do not use full-force water jet in order to avoid dispersal and spread of the fire.

Special hazards arising from the substance or mixture: May be released in case of fire: carbon monoxide and carbon dioxide.

Special protective equipment and precautions 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.

6. Accidental release measures

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

Accidental release measures: Avoid dust formation.

Methods and material for containment and cleaning up: Sweep up or vacuum up spillage and collect in suitable container for disposal.

Environmental Precautions: Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.

7. Handling and storage

Handling

Technical measures: Provide suitable extraction/ventilation at processing machines. If necessary: Local ventilation. see also section 7.

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.

Storage

Safe storage conditions: Keep in a dry place.Take precautionary measures against static discharges.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Observe national threshold limit values.

Biological Limit Values

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

Appropriate Engineering Controls Provide suitable extraction/ventilation at processing machines. If necessary: Local ventilation. see also section 7.

Individual protection measures, such as personal protective equipment

General information: No data available.

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.

Other: No special protective equipment required.

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.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state: solid

Form: Powder

Color: White

Odor:	Odorless
Odor Threshold:	Not applicable
Melting Point:	Not applicable Decomposition
Boiling Point:	Not applicable Decomposition
Flammability:	No data available.
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Flash Point:	Not applicable
Auto-ignition temperature:	> 600 °C/> 1112 °F
Decomposition Temperature:	> 300 °C/> 572 °F
pH:	3.0 - 5.0 40 g/l 20 °C/68 °F 1: 1 in suspension
Viscosity	
Dynamic viscosity:	Not applicable (solid)
Kinematic viscosity:	Not applicable (solid)
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	hardly soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable
Vapor pressure:	Not applicable
Relative density:	No data available.
Density:	Approximate 2 g/cm3 20 °C/68 °F
Bulk density:	No data available.
Vapor density (air=1):	No data available.

Other information

Peroxides:	Not applicable
Evaporation Rate:	Not applicable

10. Stability and reactivity

Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical Stability:	Stable under recommended storage conditions.

Possibility of hazardous reactions:	No hazardous reactions are known if properly handled and stored.
Conditions to avoid:	Hydrophobic properties disappear at temperatures > 300°C
Incompatible Materials:	None known.
Hazardous Decomposition Products:	Carbon Monoxide. Carbon Dioxide. organic products of decomposition

11. Toxicological information

General information: Silicosis or other product specific illnesses of the respiratory tract were not observed in association with the product.

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.
Ingestion:	Information on effects are given below.

Acute toxicity (list all possible routes of exposure)

Oral

Product:	LD 50, Rat, Female, Male, > 5,000 mg/kg, OECD 401, (analogy)
Components:	
Silane, dichlorodimethyl-, reaction products with silica	LD 50, Rat, Female, Male, > 5,000 mg/kg, OECD 401, (analogy)

Dermal

Product:	LD 50, Rabbit, > 5,000 mg/kg, (analogy)
Components:	
Silane, dichlorodimethyl-, reaction products with silica	LD 50, Rabbit, > 5,000 mg/kg, (analogy)

Inhalation

Product:	LC 50, Rat, Female, Male, 4 h, > 5.01 mg/l, OECD 436, Dust and mist, (analogy)
Components:	
Silane, dichlorodimethyl-, reaction products with silica	LC 50, Rat, Female, Male, 4 h, > 5.01 mg/l, Dust and mist, OECD 436, (analogy) Vapour, Not toxic after single exposure, Not applicable

Repeated dose toxicity

Product:	NOAEL Rat, Male, Oral, 28 day, 7 days a week, >= 1,000 mg/kg, No negative effects. (analogy)
Components:	
Silane, dichlorodimethyl-,	NOAEL Rat, Male, Oral, 28 day, 7 days a week, >= 1,000 mg/kg, No

reaction products with silica	negative effects. (analogy)

Skin Corrosion/Irritation

Product:	OECD 404, (Rabbit), Not irritating, (analogy)
Components:	
Silane, dichlorodimethyl-, reaction products with silica	Not irritating, OECD 404, Rabbit, (analogy)

Serious Eye Damage/Eye Irritation

Product:	analogous OECD method, Rabbit, Not irritating, (analogy)
Components:	
Silane, dichlorodimethyl-, reaction products with silica	Not irritating, analogous OECD method, Rabbit, (analogy)

Respiratory or Skin Sensitization

Product:	Local Lymph Node Assay (LLNA), OECD 429, Mouse, Not a skin sensitizer., (analogy) Maximization Test, OECD 406, Guinea Pig, Not a skin sensitizer., (analogy)
Components:	
Silane, dichlorodimethyl-, reaction products with silica	Local Lymph Node Assay (LLNA), OECD 429, Mouse, Not a skin sensitizer., (analogy) Maximization Test, OECD 406, Guinea Pig, Not a skin sensitizer., (analogy)

Carcinogenicity

Product:	No evidence that cancer may be caused.
Components:	
Silane, dichlorodimethyl-, reaction products with silica	No evidence that cancer may be caused.

Germ Cell Mutagenicity

no evidence of mutagenic effects

In vitro

Product:	gene mutation test, OECD 471: , negative, (analogy) gene mutation test, OECD 490: , negative, (analogy) Chromosomal aberration, OECD 473: , negative, (analogy)
Components:	
Silane, dichlorodimethyl-, reaction products with silica	gene mutation test, OECD 471: , negative, (analogy) gene mutation test, OECD 490: , negative, (analogy) Chromosomal aberration, OECD 473: , negative, (analogy)

In vivo

Product:	Chromosomal aberration, OECD 475, Oral, Rat, Male, negative, (analogy)
Components:	

Silane, dichlorodimethyl-, reaction products with silica	Chromosomal aberration, OECD 475, Oral, Rat, Male, negative, (analogy)

Reproductive toxicity

Product: no evidence of reproductiontoxic properties

Components:

Silane, dichlorodimethyl-, reaction products with silica	no evidence of reproductiontoxic properties

Specific Target Organ Toxicity - Single Exposure

Product: no evidence for hazardous properties

Components:

Silane, dichlorodimethyl-, reaction products with silica	no evidence for hazardous properties

Specific Target Organ Toxicity - Repeated Exposure

Product: no evidence for hazardous properties

Components:

Silane, dichlorodimethyl-, reaction products with silica	no evidence for hazardous properties

Aspiration Hazard

Product: No data available.

Components:

Silane, dichlorodimethyl-, reaction products with silica	Not applicable

Information on health hazards

Other hazards

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

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: LC 50, (Brachydanio rerio), 96 h, > 10,000 mg/l OECD 203, The reported toxic effects relate to the nominal concentration. (analogy)

Components:

Silane, dichlorodimethyl-, reaction products with silica	LC 50, (Brachydanio rerio), 96 h, > 10,000 mg/l OECD 203, The reported toxic effects relate to the nominal concentration. (analogy)

Aquatic Invertebrates

Product: EC 50, Daphnia magna, 24 h, > 1,000 mg/l OECD 202, The reported toxic effects relate to the nominal concentration. (analogy)

Components:

Silane, dichlorodimethyl-, reaction products with silica	EC 50, Daphnia magna, 24 h, > 1,000 mg/l OECD 202, The reported toxic effects relate to the nominal concentration. (analogy)

Toxicity to Aquatic Plants

Product:	EC 50 (Desmodesmus subspicatus (green algae), 72 h): > 173 mg/l (OECD 201) (analogy)
Components:	
Silane, dichlorodimethyl-, reaction products with silica	EC 50 (Desmodesmus subspicatus (green algae), 72 h): > 173 mg/l (OECD 201) (analogy)

Toxicity to microorganisms

Product:	EC 50, local activated sludge, 3 h, > 2,500 mg/l, OECD 209, (analogy)
Components:	
Silane, dichlorodimethyl-, reaction products with silica	EC 50, local activated sludge, 3 h, > 2,500 mg/l, OECD 209, (analogy)

Chronic hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
Silane, dichlorodimethyl-, reaction products with silica	No data available.

Aquatic Invertebrates

Product:	No data available.
Components:	
Silane, dichlorodimethyl-, reaction products with silica	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
Silane, dichlorodimethyl-, reaction products with silica	No data available.

Toxicity to microorganisms

Product:	EC 50, local activated sludge, 3 h, > 2,500 mg/l, OECD 209, (analogy)
Components:	
Silane, dichlorodimethyl-, reaction products with silica	EC 50, local activated sludge, 3 h, > 2,500 mg/l, OECD 209, (analogy)

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:	
Silane, dichlorodimethyl-, reaction products with silica	The methods designed to assess persistence and biodegradability are not applicable to this product, in analogy to inorganic substances.

BOD/COD Ratio

Product:	No data available.
Components:	
Silane, dichlorodimethyl-, reaction products with silica	No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:	Not to be expected.
Components:	
Silane, dichlorodimethyl-, reaction products with silica	Not to be expected.

Partition Coefficient n-octanol / water (log Kow)

Product:	Not applicable
Components:	
Silane, dichlorodimethyl-, reaction products with silica	, Not applicable

Mobility in soil:

Product	No remarkable mobility in soil is to be expected.
Components:	
Silane, dichlorodimethyl-, reaction products with silica	No remarkable mobility in soil is to be expected.

Other adverse effects:

Other hazards

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

13. Disposal considerations

Disposal methods:	Review all local, state and federal regulations concerning health and pollution for appropriate disposal procedures.
Contaminated Packaging:	Offer rinsed packaging material to local recycling facilities. Other countries: observe the national regulations.

14. Transport information

ADG
Not regulated as a dangerous good

International Regulations

UNRTDG
Not regulated as a dangerous good

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

15. Regulatory information

International regulations

Montreal protocol
Not applicable

Stockholm convention
Not applicable

Rotterdam convention
Not applicable

Kyoto protocol
Not applicable

16.Other information, including date of preparation or last revision

Issue Date: 17.01.2023

Version #: 1.1

Abbreviations and acronyms:

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS -

Hazardous Materials Identification System; 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 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further Information: No data available.

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

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