

SAFETY DATA SHEET

1. Identification

Product identifier: TEGO® Airex 904 W

Chemical name: Polyethersiloxanes with hydrophobic particles

Other means of identification

Recommended use: Industrial use

Recommended restrictions: None known.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Australia Pty Ltd
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2. Hazard(s) identification

Classification according to GHS

Health Hazards

Acute toxicity (Oral) Category 5

Toxic to reproduction Category 2

Label Elements

Hazard Symbol:



Signal Word: Warning

Hazard Statement: May be harmful if swallowed.
Suspected of damaging fertility.

Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.

Response: Call a POISON CENTER or doctor/ physician if you feel unwell. IF exposed or concerned: Get medical advice/attention.

Storage: Store locked up.

Disposal: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

Other hazards: None known.

3. Composition/information on ingredients

Chemical name:
Polyethersiloxanes with hydrophobic particles

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
octamethylcyclotetrasiloxane	No data available.	556-67-2	<0.8%

* 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 necessary first-aid measures

General information: Remove soiled or soaked clothing immediately

Inhalation:	fresh air supply, consult a doctor if feeling unwell.
Skin Contact:	In case of contact with skin wash off with soap and water. In case of discomfort: Supply with medical care.
Eye contact:	In case of contact with eyes rinse thoroughly with water. In case of discomfort: Supply with medical care.
Ingestion:	Thoroughly clean the mouth with water 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:	Up to now no symptoms are known.
Hazards:	No data available.

Indication of immediate medical attention and special treatment needed

Treatment:	Treat symptomatically.
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5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: foam, carbon dioxide, dry powder, water spray.

Unsuitable extinguishing media: High volume water jet.

Special hazards arising from the substance or mixture: In the event of fire the following can be released: - Carbon monoxide, carbon dioxide, silicon dioxide Under certain conditions of combustion traces of other toxic substances cannot be excluded

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No specific precautions.

Special protective equipment for fire-fighters: Do not inhale explosion and/or combustion gases. Self-contained breathing apparatus.

6. Accidental release measures

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

Accidental release measures: No data available.

Methods and material for containment and cleaning up: Take up with absorbent material (eg sand, kieselguhr, universal binder) Dispose of absorbed material in accordance with the regulations.

Environmental Precautions: Do not allow to enter drains or waterways Prevent product from getting into subsoil/soil.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation): No data available.

Safe handling advice: Provide good ventilation of working area (local exhaust ventilation if necessary). Use respiratory protection during spraying. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Keep container tightly closed in a cool, well-ventilated place. Homogenise before using. Keep at temperature not exceeding 40°C.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Observe national threshold limit values.

Biological Limit Values

Observe national threshold limit values.

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment

General information: No data available.

Eye/face protection: Safety glasses

Skin Protection

Hand Protection: Material: Nitrile rubber.
Break-through time: 120 min
Glove thickness: 0.11 mm

Other: protective clothing

Respiratory Protection:	in case of formation of vapours/aerosols: Short term: filter apparatus, combination filter A-P2
Hygiene measures:	When using do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Remove soiled or soaked clothing immediately.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	yellowish
Odor:	Characteristic
Odor Threshold:	not measured
Freezing point:	not measured
Boiling Point:	not measured
Flammability:	not measured

Upper/lower limit on flammability or explosive limits

Explosive limit - upper:	not measured
Explosive limit - lower:	not measured
Flash Point:	> 212 °F/> 100 °C (DIN EN ISO 2719)
Autoignition Temperature:	not measured
Decomposition Temperature:	not measured
pH:	6.5 (23 °C)

Viscosity

Dynamic viscosity:	50 - 400 mPa.s (77 °F/25 °C, DIN 53015)
Kinematic viscosity:	49 - 388 mm ² /s (77 °F/25 °C, calculated)
Flow Time:	No data available.

Solubility(ies)

Solubility in Water:	miscible
Solubility (other):	not measured
Partition coefficient (n-octanol/water):	not measured

Vapor pressure:	not measured
Relative density:	not measured
Density:	1.01 - 1.03 g/cm ³ (77 °F/25 °C) (DIN 12791)

Bulk density:	No data available.
Relative vapor density:	not measured

Particle characteristics

Particle Size:	No data available.
Particle Size Distribution:	No data available.
Specific surface area:	No data available.
Surface charge/Zeta potential:	No data available.

Shape: No data available.
Crystallinity: No data available.
Surface treatment: No data available.

Other information

Explosive properties: not measured
Oxidizing properties: not oxidizing
Minimum ignition temperature: not measured
Metal Corrosion: Not corrosive to metals
Evaporation Rate: not measured

10. Stability and reactivity

Reactivity: see section "Possibility of hazardous reactions".
Chemical Stability: The product is stable under normal conditions.
Possibility of hazardous reactions: No hazardous reactions with proper storage and handling
Conditions to avoid: None with proper storage and handling.
Incompatible Materials: Not known.
Hazardous Decomposition Products: None with proper storage and handling.

11. Toxicological information

Information on toxicological effects

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 (ATEmix): 2,471 mg/kg
Components:
 octamethylcyclotetrasiloxane LD 50 (Rat): > 5,000 mg/kg

Dermal

Product: No data available.
Components:

octamethylcyclotetrasiloxane LD 50 (Rat): > 5,000 mg/kg

Inhalation

Product: No data available.

Components:

octamethylcyclotetrasiloxane LC 50 (Rat, Female, Male, 4 h): 36 mg/l Vapour Dust and mist, No data available.

Repeated dose toxicity

Product: No data available.

Components:

octamethylcyclotetrasiloxane
 NOAEC (Rat(Female, Male), Inhalation(Vapour) , 5 days/weeks, 6 hours/day): 1.8 mg/l Subchronic toxicity
 LOAEC (Rat(Female, Male), Inhalation(Vapour) , 5 days/weeks, 6 hours/day): 8.5 mg/l chronic
 NOAEC (Rat(Female, Male), Inhalation(Vapour) , 5 days/weeks, 6 hours/day): 0.36 mg/l Subacute toxicity

Skin Corrosion/Irritation

Product: No data available.

Components:

octamethylcyclotetrasiloxane OECD 404 (Rabbit): Not irritating

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

octamethylcyclotetrasiloxane OECD 405 (Rabbit): Not irritating

Respiratory or Skin Sensitization

Product: No data available.

Components:

octamethylcyclotetrasiloxane
 Magnussona i Kligmana., OECD 406 (Rabbit): Not a skin sensitizer.
 Sensitization test (Human): Not a skin sensitizer.
 Maximization Test, OECD 406 (Guinea Pig): Not a skin sensitizer.

Carcinogenicity

Product: No data available.

Components:

octamethylcyclotetrasiloxane No data available.

Germ Cell Mutagenicity

No data available.

In vitro

Product: No data available.

Components:

octamethylcyclotetrasiloxane
 Ames test (OECD 471): negative
 Chromosomal aberration (OECD 473): negative
 gene mutation test (OECD 476): negative

In vivo

Product: No data available.

Components:

octamethylcyclotetrasiloxane
 Micronucleus test (OECD 474) Inhalation - vapor (Rat): negative
 Chromosomal aberration (OECD 478) Oral (Rat): negative
 Chromosomal aberration (OECD 475) Inhalation - vapor (Rat, Female, Male): negative

Reproductive toxicity

Product: No data available.

Components:

octamethylcyclotetrasiloxane
 Suspected of damaging fertility or the unborn child. Suspected of damaging fertility.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:

octamethylcyclotetrasiloxane
 No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

octamethylcyclotetrasiloxane
 No data available.

Aspiration Hazard

Product: Not classified

Components:

octamethylcyclotetrasiloxane
 Not classified

Information on health hazards

Other hazards

Product: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: LC 50 (Danio rerio, 96 h): > 100 mg/l

Components:

octamethylcyclotetrasiloxane
 LC 50 (Oncorhynchus mykiss, 96 h): > 22 µg/l
 NOEC (Oncorhynchus mykiss, 96 h): 22 µg/l

Aquatic Invertebrates

Product: EC 50 (Daphnia magna, 48 h): > 100 mg/l

Components:

octamethylcyclotetrasiloxane
 NOEC (Daphnia magna, 48 h): 15 µg/l
 EC 50 (Daphnia magna, 48 h): > 15 µg/l

Toxicity to Aquatic Plants

Product: No data available.

Components:

octamethylcyclotetrasiloxane
 EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 22 µg/l (US-EPA-method)
 EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 22 µg/l (US-EPA-method)

Toxicity to microorganisms

Product: No data available.

Components:

octamethylcyclotetrasiloxane
 No data available.

Toxicity to soil dwelling organisms

Product: No data available.

Components:

octamethylcyclotetrasiloxane
 No data available.

Toxicity to terrestrial organisms

Product: No data available.

Components:

octamethylcyclotetrasiloxane
 No data available.

Chronic hazards to the aquatic environment:
Fish

Product: No data available.

Components:

octamethylcyclotetrasiloxane
 NOEC (Oncorhynchus mykiss, 93 d): 4.4 µg/l (US-EPA-method)

Aquatic Invertebrates

Product: No data available.

Components:

octamethylcyclotetrasiloxane
 NOEC (Daphnia magna, 21 d): 15 µg/l (EPA OTS 797.1330)
 Lowest Observed Effect Concentration (Daphnia magna, 21 d): 15 µg/l (EPA OTS 797.1330)
 EC 50 (Daphnia magna, 21 d): > 15 µg/l (EPA OTS 797.1330)

Toxicity to Aquatic Plants

Product: NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): 100 mg/l (OECD 201) Own study

Components:

octamethylcyclotetrasiloxane
 NOEC (Algae (Pseudokirchneriella subcapitata), 96 h): < 22 µg/l (US-EPA-method)

Toxicity to microorganisms

Product: No data available.

Components:

octamethylcyclotetrasiloxane No data available.

Toxicity to soil dwelling organisms

Product: No data available.

Components:

octamethylcyclotetrasiloxane No data available.

Toxicity to terrestrial organisms

Product: No data available.

Components:

octamethylcyclotetrasiloxane No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Components:

octamethylcyclotetrasiloxane 3.7 % (28 d, OECD 310) The product is not biodegradable., aerobic

BOD/COD Ratio

Product: No data available.

Components:

octamethylcyclotetrasiloxane No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

octamethylcyclotetrasiloxane No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: not measured

Components:

octamethylcyclotetrasiloxane Log Kow: 6.488 25.1 °C (OECD 123)

Mobility in soil:

Product No data available.

Components:

octamethylcyclotetrasiloxane No data available.

Product No data available.

Components:

octamethylcyclotetrasiloxane No data available.

Other adverse effects:

Other hazards

Product: Do not allow to enter soil, waterways or waste water canal.

13. Disposal considerations

Disposal methods: In accordance with local authority regulations, take to special waste incineration plant

Contaminated Packaging: If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

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: 19.08.2021

Version #: 1.1

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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