

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** TEGO® Airex 904 W N

**Chemical name:** Polyethersiloxane with hydrophobic particles

### Other means of identification

**Recommended use:** Industrial use

**Recommended restrictions:** None known.

### Manufacturer/Importer/Distributor Information

Company Name : Evonik Operations GmbH  
Rellinghauser Str. 1-11  
45128 Essen  
Germany

Telephone : +49 201 173 01

Fax : +49 201 173 3000

E-mail : productsafety-cs@evonik.com

### Emergency telephone number:

24-Hour Health : +49 2365 49 2232

Emergency : +49 2365 49 4423 (Fax)

## 2. Hazard(s) identification

### Classification according to GHS

#### Health Hazards

Acute toxicity (Oral) Category 5

### Label Elements

**Hazard Symbol:** No symbol

**Signal Word:** Warning

**Hazard Statement:** May be harmful if swallowed.

#### Precautionary Statements

**Response:** Call a POISON CENTER or doctor/ physician if you feel unwell.

**Other hazards:** None known.

### 3. Composition/information on ingredients

**Chemical name:**

Polyethersiloxane with hydrophobic particles

**Mixtures**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
octamethylcyclotetrasiloxane	No data available.	556-67-2	<0,1%

\* 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**

<b>General information:</b>	Remove soiled or soaked clothing immediately
<b>Inhalation:</b>	fresh air supply, consult a doctor if feeling unwell.
<b>Skin Contact:</b>	In case of contact with skin wash off with soap and water. In case of discomfort: Supply with medical care.
<b>Eye contact:</b>	In case of contact with eyes rinse thoroughly with water. In case of discomfort: Supply with medical care.
<b>Ingestion:</b>	Thoroughly clean the mouth with water In case of discomfort: Supply with medical care.
<b>Personal Protection for First-aid Responders:</b>	No data available.

**Most important symptoms and effects, both acute and delayed**

<b>Symptoms:</b>	Up to now no symptoms are known.
<b>Hazards:</b>	No data available.

**Indication of immediate medical attention and special treatment needed**

<b>Treatment:</b>	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 fire-fighters

**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, acid binder, universal binder, sawdust). 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. Protect from frost. Keep

away from direct sunlight. Keep away from heat. Do not store together with oxidizing agents.

**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: 240 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:** Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke.  
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

<b>Explosive limit - lower:</b>	not measured
<b>Flash Point:</b>	> 212 °F/> 100 °C (DIN EN ISO 2719)
<b>Self Ignition Temperature:</b>	not measured
<b>Decomposition Temperature:</b>	not measured
<b>pH:</b>	7 - 9 (100 g/l, 25 °C) in Water
<b>Viscosity</b>	
<b>Dynamic viscosity:</b>	50 - 1.000 mPa.s (77 °F/25 °C, DIN 53015)
<b>Kinematic viscosity:</b>	48,7 - 974,65 mm <sup>2</sup> /s (77 °F/25 °C, calculated)
<b>Flow Time:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Insoluble
<b>Solubility (other):</b>	not measured
<b>Partition coefficient (n-octanol/water):</b>	not measured
<b>Vapor pressure:</b>	not measured
<b>Relative density:</b>	not measured
<b>Density:</b>	1,016 - 1,026 g/cm <sup>3</sup> (77 °F/25 °C) (DIN 51757)
<b>Bulk density:</b>	No data available.
<b>Relative vapor density:</b>	not measured
<b>Particle characteristics</b>	
<b>Particle Size:</b>	No data available.
<b>Particle Size Distribution:</b>	No data available.
<b>Specific surface area:</b>	No data available.
<b>Surface charge/Zeta potential:</b>	No data available.
<b>Shape:</b>	No data available.
<b>Crystallinity:</b>	No data available.
<b>Surface treatment:</b>	No data available.

#### Other information

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

### 10. Stability and reactivity

<b>Reactivity:</b>	see section "Possibility of hazardous reactions".
<b>Chemical Stability:</b>	The product is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	No hazardous reactions with proper storage and handling
<b>Conditions to avoid:</b>	Open flames, sparks or input of much heat direct sunlight Freezing.
<b>Incompatible Materials:</b>	Oxidizing agents.

**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): 2.257 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 Dusts, mists and fumes, 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.

#### 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)



xane

#### 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 (Desmodesmus subspicatus (green algae), 72 h): 100 mg/l (OECD 201) The product was tested above its maximum solubility.

**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.

#### 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

**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

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

**Issue Date:** 04.03.2019

**Version #:** 1.2

**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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