

# SAFETY DATA SHEET



Aqua-Flex MS-Polymer

## Section 1. Identification

**Product identifier** : Aqua-Flex MS-Polymer  
**Product code** : 137020  
**Color** : Various  
**Other means of identification** : Not available.  
**Product type** : Solid.

### Relevant identified uses of the substance or mixture and uses advised against

#### **Identified uses**

Adhesives-Sealants  
Elasticizer

#### **Uses advised against**

Not applicable.

**Supplier's details** : WEICON GmbH & Co. KG  
Königsberger Str. 255,  
48157 Münster, Germany  
phone:+49 251 93220,  
email: info@weicon.de,  
URL: www.weicon.de

**e-mail address of person responsible for this SDS** : msds@weicon.de

**Emergency telephone number (with hours of operation)** : EMERGENCY CONTACT – UK, UAE, South Africa (24h): Tel: ++44 1865 407333 (English)  
TRANSPORT EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel: ++44 1865 407333 (English)

## Section 2. Hazards identification

**Classification of the substance or mixture** : Not classified.

### GHS label elements, including precautionary statements

**Signal word** : No signal word.  
**Hazard statements** : No known significant effects or critical hazards.

#### Precautionary statements

**General** : P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P103 - Read carefully and follow all instructions.  
**Prevention** : Not applicable.  
**Response** : Not applicable.  
**Storage** : Not applicable.  
**Disposal** : Not applicable.

**Other hazards which do not result in classification** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture  
**Other means of identification** : Not available.

| Ingredient name                              | %  | Identifiers                      |
|----------------------------------------------|----|----------------------------------|
| titanium dioxide                             | ≤3 | CAS: 13463-67-7<br>EC: 236-675-5 |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine | <1 | CAS: 1760-24-3<br>EC: 217-164-6  |
| trimethoxyvinylsilane                        | <1 | CAS: 2768-02-7<br>EC: 220-449-8  |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

**Chemical formula** : Not applicable.

## Section 4. First aid measures

### Description of necessary first aid measures

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact** : No specific data.

**Inhalation** : No specific data.

**Skin contact** : No specific data.

**Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : No specific fire or explosion hazard.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
metal oxide/oxides

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8).

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## Section 7. Handling and storage

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Ingredient name  | Exposure limits                                                                                                                                                                                                                                                                           |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| titanium dioxide | <b>Workplace Safety and Health Act (Singapore, 1/2025)</b><br>PEL (long term) 8 hours: 10 mg/m <sup>3</sup> .                                                                                                                                                                             |
| methanol         | <b>[Air contaminant - Curing]</b><br><b>Workplace Safety and Health Act (Singapore, 1/2025)</b><br>PEL (long term) 8 hours: 200 ppm.<br>PEL (long term) 8 hours: 262 mg/m <sup>3</sup> .<br>PEL (short term) 15 minutes: 328 mg/m <sup>3</sup> .<br>PEL (short term) 15 minutes: 250 ppm. |

#### Biological exposure indices

No exposure indices known.

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### Skin protection

**Hand protection** : Recommended : 1 - 4 hours (breakthrough time): Protective gloves made of nitrile rubber (material thickness of 0,4 mm); EN 374-5 Cat. III 4 - 8 hours (breakthrough time): Protective gloves made of Viton®/ butyl rubber (material thickness of 0,7 mm); EN388 Cat.II / EN374 Cat.III / EN374-2

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : In case of insufficient ventilation, wear suitable respiratory equipment.

## Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

|                                                          |                                                                                                                                                        |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Physical state                                           | : Solid.                                                                                                                                               |
| Color                                                    | : Various                                                                                                                                              |
| Odor                                                     | : Characteristic.                                                                                                                                      |
| Odor threshold                                           | : Not available.                                                                                                                                       |
| pH                                                       | : Not applicable.                                                                                                                                      |
| Melting point/freezing point                             | : Not available.                                                                                                                                       |
| Boiling point or initial boiling point and boiling range | : Not available.                                                                                                                                       |
| Flash point                                              | : Closed cup: 61 to 93.3°C (141.8 to 199.9°F)                                                                                                          |
| Burning rate                                             | : <2.2 mm/s (<0.087 inch/s)                                                                                                                            |
| Evaporation rate                                         | : Not available.                                                                                                                                       |
| Flammability                                             | : Not available.                                                                                                                                       |
| Lower and upper explosion limit/flammability limit       | : Not applicable.                                                                                                                                      |
| Vapor pressure                                           | : Not available.                                                                                                                                       |
| Relative vapor density                                   | : Not applicable.                                                                                                                                      |
| Relative density                                         | : Not available.                                                                                                                                       |
| Density                                                  | : 1.44 g/cm <sup>3</sup> [20°C (68°F)]                                                                                                                 |
| Solubility in water                                      | : Not available.                                                                                                                                       |
| Miscible with water                                      | : No.                                                                                                                                                  |
| Partition coefficient: n-octanol/water                   | : Not applicable.                                                                                                                                      |
| Auto-ignition temperature                                | : Not applicable.                                                                                                                                      |
| Decomposition temperature                                | : Not available.                                                                                                                                       |
| Viscosity                                                | : Dynamic (room temperature): Not available.<br>Kinematic (room temperature): Not available. [DIN 53211/4]<br>Kinematic (40°C (104°F)): Not available. |

### Particle characteristics

|                      |                  |
|----------------------|------------------|
| Median particle size | : Not available. |
|----------------------|------------------|

## Section 10. Stability and reactivity

|                                    |                                                                                                        |
|------------------------------------|--------------------------------------------------------------------------------------------------------|
| Reactivity                         | : No specific test data related to reactivity available for this product or its ingredients.           |
| Chemical stability                 | : The product is stable.                                                                               |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| Conditions to avoid                | : No specific data.                                                                                    |
| Incompatible materials             | : No specific data.                                                                                    |
| Hazardous decomposition products   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| SADT                               | : Not available.                                                                                       |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

##### Product/ingredient name

N-(3-(trimethoxysilyl)propyl)ethylenediamine

##### Result

**Rat - Oral - LD50**

2413 mg/kg

Toxic effects: Behavioral - Tremor Gastrointestinal -  
Hypermotility, diarrhea Gastrointestinal - Other changes

**Conclusion/Summary [Product]** : Not available.

#### Skin corrosion/irritation

##### Product/ingredient name

titanium dioxide

##### Result

**Human - Skin - Mild irritant**

Duration of treatment/exposure: 72 hours

Amount/concentration applied: 300 ug l

N-(3-(trimethoxysilyl)propyl)ethylenediamine

**Rabbit - Skin - Mild irritant**

Amount/concentration applied: 500 mg

trimethoxyvinylsilane

**Rabbit - Skin - Mild irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

**Conclusion/Summary [Product]** : Not available.

#### Serious eye damage/eye irritation

##### Product/ingredient name

N-(3-(trimethoxysilyl)propyl)ethylenediamine

##### Result

**Rabbit - Eyes - Severe irritant**

Amount/concentration applied: 15 mg

trimethoxyvinylsilane

**Rabbit - Eyes - Mild irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

**Conclusion/Summary [Product]** : Not available.

#### Respiratory corrosion/irritation

Not available.

**Conclusion/Summary [Product]** : Not available.

#### Respiratory or skin sensitization

Not available.

#### Skin

**Conclusion/Summary [Product]** : Not available.

#### Respiratory

**Conclusion/Summary [Product]** : Not available.

#### Germ cell mutagenicity

Not available.

**Conclusion/Summary [Product]** : Not available.

#### Carcinogenicity

## Section 11. Toxicological information

Not available.

**Conclusion/Summary [Product]** : Not available.

### Reproductive toxicity

Not available.

**Conclusion/Summary [Product]** : Not available.

### Specific target organ toxicity (single exposure)

#### **Product/ingredient name**

N-(3-(trimethoxysilyl)propyl)ethylenediamine

#### **Result**

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

### Information on the likely routes of exposure

Not available.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### **Short term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### **Long term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**Conclusion/Summary [Product]** : Not available.

**General** : No known significant effects or critical hazards.

## Section 11. Toxicological information

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Product/ingredient name                                            | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|--------------------------------------------------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| N-(3-(trimethoxysilyl)propyl)ethylenediamine trimethoxyvinylsilane | 2413<br>N/A  | N/A<br>N/A     | N/A<br>N/A               | N/A<br>11                  | N/A<br>N/A                          |

## Section 12. Ecological information

### Toxicity

#### Product/ingredient name

titanium dioxide

#### Result

##### Acute - LC50 - Marine water

Fish - Mummichog - *Fundulus heteroclitus*  
>1000 mg/l [96 hours]

Effect: Mortality

##### Acute - LC50 - Fresh water

Crustaceans - Water flea - *Ceriodaphnia dubia* - Neonate  
Age: <24 hours

3 mg/l [48 hours]

Effect: Mortality

##### Acute - LC50 - Fresh water

Crustaceans - Water flea - *Ceriodaphnia dubia* - Neonate  
Age: <24 hours

13.4 mg/l [48 hours]

Effect: Mortality

##### Acute - LC50 - Fresh water

Crustaceans - Water flea - *Ceriodaphnia dubia* - Neonate  
Age: <24 hours

11 mg/l [48 hours]

Effect: Mortality

##### Acute - LC50 - Fresh water

Crustaceans - Water flea - *Ceriodaphnia dubia* - Neonate  
Age: <24 hours

3.6 mg/l [48 hours]

Effect: Mortality

##### Acute - LC50 - Fresh water

Crustaceans - Water flea - *Ceriodaphnia dubia* - Neonate  
Age: <24 hours

15.9 mg/l [48 hours]

Effect: Mortality

##### Acute - LC50 - Fresh water

Daphnia - Water flea - *Daphnia pulex* - Neonate  
Age: <24 hours

6.5 mg/l [48 hours]

Effect: Mortality

##### Acute - LC50 - Fresh water

Daphnia - Water flea - *Daphnia pulex* - Neonate  
Age: <24 hours

13 mg/l [48 hours]

## Section 12. Ecological information

Effect: Mortality

**Acute - LC50 - Fresh water**

Fish - Fathead minnow - *Pimephales promelas*

Age: 1 to 14 days

>1000 mg/l [96 hours]

Effect: Mortality

**Acute - EC50 - Fresh water**

OECD

Daphnia - Water flea - *Daphnia magna*

19.3 mg/l [48 hours]

Effect: Intoxication

**Acute - EC50 - Fresh water**

OECD

Daphnia - Water flea - *Daphnia magna*

27.8 mg/l [48 hours]

Effect: Intoxication

**Acute - EC50 - Fresh water**

OECD

Daphnia - Water flea - *Daphnia magna* - Neonate

Age: <24 hours

35.306 mg/l [48 hours]

Effect: Intoxication

**Conclusion/Summary [Product]** : Not available.

### Persistence and degradability

Not available.

**Conclusion/Summary [Product]** : Not available.

### Bioaccumulative potential

Not available.

### Mobility in soil

**Soil/Water partition coefficient** : Not available.

### Other adverse effects

No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

|                            | UN             | IMDG           | IATA           | ADR/RID        | ADN            |
|----------------------------|----------------|----------------|----------------|----------------|----------------|
| UN number                  | Not available. | Not available. | Not available. | Not available. | Not available. |
| UN proper shipping name    | Not available. | Not available. | Not available. | Not available. | Not available. |
| Transport hazard class(es) | Not available. | Not available. | Not available. | Not available. | Not available. |
| Packing group              | -              | -              | -              | -              | -              |
| Environmental hazards      | No.            | No.            | No.            | No.            | No.            |

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to IMO instruments** : Not available.

## Section 15. Regulatory information

### Singapore - hazardous chemicals under government control

None.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

|                                |                                                                                                    |
|--------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Australia</b>               | : Not determined.                                                                                  |
| <b>Canada</b>                  | : Not determined.                                                                                  |
| <b>China</b>                   | : All components are listed or exempted.                                                           |
| <b>Eurasian Economic Union</b> | : <b>Russian Federation inventory:</b> Not determined.                                             |
| <b>Japan</b>                   | : <b>Japan inventory (CSCL):</b> Not determined.<br><b>Japan inventory (ISHL):</b> Not determined. |
| <b>New Zealand</b>             | : All components are listed or exempted.                                                           |
| <b>Philippines</b>             | : Not determined.                                                                                  |
| <b>Republic of Korea</b>       | : Not determined.                                                                                  |
| <b>Taiwan</b>                  | : Not determined.                                                                                  |
| <b>Thailand</b>                | : Not determined.                                                                                  |
| <b>Turkey</b>                  | : Not determined.                                                                                  |

## Section 15. Regulatory information

|                      |                                          |
|----------------------|------------------------------------------|
| <b>United States</b> | : All components are active or exempted. |
| <b>Viet Nam</b>      | : All components are listed or exempted. |

## Section 16. Other information

### History

|                                       |              |
|---------------------------------------|--------------|
| <b>Date of printing</b>               | : 02/02/2026 |
| <b>Date of issue/Date of revision</b> | : 29/01/2026 |
| <b>Date of previous issue</b>         | : 04/11/2025 |
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|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Key to abbreviations</b> | : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway<br>ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road<br>ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br>IATA = International Air Transport Association<br>IBC = Intermediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>IMO = International Maritime Organization<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br>N/A = Not available<br>RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail<br>SGG = Segregation Group<br>UN = United Nations |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Procedure used to derive the classification

Not classified.

|                   |                  |
|-------------------|------------------|
| <b>References</b> | : Not available. |
|-------------------|------------------|

📌 Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.