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| <b>SAFETY DATA SHEET</b>   | Revision Date: 09.03.2018 |
|  | Print Date: 10.12.2018    |
|  | SDS Number: R0718432      |
| Aquastyle™ 300 polymer<br>™ Trademark, Ashland or its subsidiaries, registered<br>in various countries<br>826255 | Version: 1.4              |

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS\_GB

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name : Aquastyle™ 300  
polymer  
™ Trademark, Ashland or its subsidiaries, registered in  
various countries

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

Recommended use : Cosmetics  
Personal care

### 1.3 Details of the supplier of the safety data sheet

Ashland  
P.O. Box 8619  
NL3009 AP, Rotterdam  
Netherlands  
+31 10 497 5000 (in the Netherlands), or  
contact your local CSR contact person

EUSMT@ashland.com

### 1.4 Emergency telephone number

00-800-274-5263-3/001-859-357-3564, or contact  
your local emergency telephone number at 111 -  
ENG, SCO, CYM and 0808 808 8000 - NIE (Mo -  
Fr, 08.00 - 18.00)

### Product Information

+31 10 497 5000 (in the Netherlands), or contact  
your local CSR contact person

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3

H226: Flammable liquid and vapour.

Eye irritation, Category 2

H319: Causes serious eye irritation.

Chronic aquatic toxicity, Category 3

H412: Harmful to aquatic life with long lasting  
effects.



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## 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

Supplemental Hazard Statements : EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

## 2.3 Other hazards

### Additional advice

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

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**Hazardous components**

| Chemical name  | CAS-No.<br>EC-No.<br>Registration number                               | Classification<br>(REGULATION (EC)<br>No 1272/2008) | Concentration<br>(%)  |
|--|--|---|-----------------------|
| 1-Dodecanaminium,<br>N,N-dimethyl-N-[3-[(2-<br>methyl-1-oxo-2-<br>propenyl)amino]propyl]-<br>, chloride, polymer with<br>N-[3-<br>(dimethylamino)propyl]-<br>2-methyl-2-<br>propenamide, 1-<br>ethenylhexahydro-2H-<br>azepin-2-one and 1-<br>ethe | 748809-45-2  | Aquatic Chronic3;<br>H412                           | >= 25,00 - <<br>40,00 |
| Ethanol  | 64-17-5<br>200-578-6<br>01-2119457610-43-0376<br>01-2119457610-43-xxxx | Flam. Liq.2; H225<br>Eye Irrit.2; H319              | >= 10,00 - <<br>15,00 |

For explanation of abbreviations see section 16.

**SECTION 4: First aid measures**
**4.1 Description of first aid measures**

- General advice : Move out of dangerous area.  
 Show this safety data sheet to the doctor in attendance.  
 Do not leave the victim unattended.
- If inhaled : If breathed in, move person into fresh air.  
 If unconscious, place in recovery position and seek medical  
 advice.  
 If symptoms persist, call a physician.
- In case of skin contact : If on skin, rinse well with water.  
 First aid is not normally required. However, it is  
 recommended that exposed areas be cleaned by washing  
 with soap and water.  
 If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.

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Remove contact lenses.  
Protect unharmed eye.

If swallowed : IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:  
stomach or intestinal upset (nausea, vomiting, diarrhea)  
irritation (nose, throat, airways)  
Cough  
confusion  
irregular heartbeat  
respiratory failure

Risks : Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material.  
Causes serious eye irritation.  
Repeated exposure may cause skin dryness or cracking.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No hazards which require special first aid measures.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)

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Dry chemical

Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : carbon dioxide and carbon monoxide  
formaldehyde-like  
Hydrocarbons

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Use a water spray to cool fully closed containers.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.  
Remove all sources of ignition.  
Ensure adequate ventilation.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.  
Comply with all applicable federal, state, and local regulations.



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Suppress (knock down) gases/vapours/mists with a water spray jet.

## 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

## 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

## 6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

# SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

Advice on safe handling : Open drum carefully as content may be under pressure.  
Avoid formation of aerosol.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Do not breathe vapours/dust.  
Do not smoke.  
Container hazardous when empty.  
Take precautionary measures against static discharges.  
Avoid contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). No sparking tools should be used. Keep away from open flames, hot surfaces and sources of ignition. Use only explosion-proof equipment.

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Hygiene measures : Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. No smoking.

Other data : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters                   | Basis   |
|------------|---------|-------------------------------|--------------------------------------|---------|
| Ethanol    | 64-17-5 | TWA                           | 1.000 ppm<br>1.920 mg/m <sup>3</sup> | GB EH40 |

### 8.2 Exposure controls

#### Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

#### Personal protective equipment

Eye protection : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Hand protection

Remarks : Neoprene gloves Nitrile rubber

The suitability for a specific workplace should be discussed with the producers of the protective gloves.



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- Skin and body protection : Wear as appropriate:  
Impervious clothing  
Safety shoes  
Flame-resistant clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Discard gloves that show tears, pinholes, or signs of wear.
- Respiratory protection : Respiratory protection is not required under normal conditions of use.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance : liquid
- Colour : yellow
- Odour : alcohol-like
- Odour Threshold : No data available
- pH : 6 - 8  
Concentration: 30 %
- Melting point/freezing point : No data available
- Boiling point/boiling range : No data available
- Flash point : 36 °C  
Value for Component
- Evaporation rate : No data available
- Flammability (solid, gas) : No data available
- Upper explosion limit : No data available
- Lower explosion limit : No data available
- Vapour pressure : No data available
- Relative vapour density : No data available



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Relative density : No data available

Density : 1,05 g/cm<sup>3</sup> (20 °C)

Solubility(ies)

Water solubility : soluble

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

### 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

Stable under recommended storage conditions.


### 10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

excessive heat

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### 10.5 Incompatible materials

Materials to avoid : Acids  
Alkali metals  
Ammonia  
Bases  
halogens  
inorganic materials  
Oxidizing agents  
sodium

### 10.6 Hazardous decomposition products

Hazardous decomposition products : carbon dioxide and carbon monoxide  
formaldehyde-like  
Hydrocarbons

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation  
Skin contact  
Eye Contact  
Ingestion

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg  
Remarks: Based on similar product.

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Remarks: Based on similar product.

#### Components:

1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, chloride, polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide, 1-ethenylhexahydro-2H-azepin-2-one and 1-ethanol

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Method: OECD Test Guideline 402

#### Components:

Ethanol

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Acute oral toxicity : LD50 (Rat): 7.060 mg/kg

Acute inhalation toxicity : LC50 (Rat): 117 - 125 mg/l  
 Exposure time: 4 h  
 Test atmosphere: vapour

Acute dermal toxicity : LDLo (Rabbit): 20 g/kg

**Skin corrosion/irritation**

Repeated exposure may cause skin dryness or cracking.

**Product:**

Species: Rabbit

Result: No skin irritation

Remarks: Based on similar product.

Remarks: May cause skin irritation in susceptible persons.

Result: Repeated exposure may cause skin dryness or cracking.

**Components:**

1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, chloride, polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide, 1-ethenylhexahydro-2H-azepin-2-one and 1-ethe

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Ethanol

Result: Slight, transient irritation

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Product:**

Species: Rabbit

Result: Irritating to eyes.

Remarks: Based on similar product.

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

**Components:**

1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, chloride, polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide, 1-ethenylhexahydro-2H-azepin-2-one and 1-ethe

Species: Rabbit

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Method: OECD Test Guideline 405

Result: Slight, transient irritation

Ethanol

Result: Irritating to eyes.

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Components:**

1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, chloride, polymer  
 with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide, 1-ethenylhexahydro-2H-azepin-2-one and  
 1-ethe

Species: Mouse

Assessment: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 429

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, chloride, polymer  
 with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide, 1-ethenylhexahydro-2H-azepin-2-one and  
 1-ethe

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Further information****Product:**

Remarks: Solvents may degrease the skin.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, chloride, polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide, 1-ethenylhexahydro-2H-azepin-2-one and 1-ethe

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 127 mg/l  
Exposure time: 96 h  
Test Type: static test  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 134 mg/l  
Exposure time: 48 h  
Test Type: static test  
GLP: yes

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 22 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes

Ethanol  
Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 12.000 - 16.000 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10.000 mg/l  
Exposure time: 48 h  
Test Type: static test

### 12.2 Persistence and degradability

#### Components:

1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, chloride, polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide, 1-ethenylhexahydro-2H-azepin-2-one and 1-ethe

Biodegradability : Test Type: Primary biodegradation



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Biodegradation: 0 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301B  
 GLP: yes  
 Remarks: Not readily biodegradable.

### 12.3 Bioaccumulative potential

#### Components:

1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, chloride, polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide, 1-ethenylhexahydro-2H-azepin-2-one and 1-ethe

Partition coefficient: n-octanol/water : log Pow: < 2

Ethanol  
 Partition coefficient: n-octanol/water : log Pow: -0,31

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

Not relevant

### 12.6 Other adverse effects

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
 Do not contaminate ponds, waterways or ditches with chemical or used container.  
 Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
 Dispose of as unused product.

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Empty containers should be taken to an approved waste handling site for recycling or disposal.  
 Do not re-use empty containers.  
 Do not burn, or use a cutting torch on, the empty drum.

**SECTION 14: Transport information**
**SECTION 14: Transport information**
**14.1 UN number**
**ADN:** Not dangerous goods

**ADR:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not dangerous goods

**RID:** Not dangerous goods

**14.2 UN proper shipping name**
**ADN:** Not dangerous goods

**ADR:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not dangerous goods

**RID:** Not dangerous goods

**14.3 Transport hazard class(es)**
**ADN:** Not dangerous goods

**ADR:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not dangerous goods

**RID:** Not dangerous goods

**14.4 Packing group**
**ADN:** Not dangerous goods


**ADR:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not dangerous goods

**RID:** Not dangerous goods

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#### 14.5 Environmental hazards

**ADN:** Not applicable

**ADR:** Not applicable

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not applicable

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not applicable

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not applicable

**RID:** Not applicable

#### 14.6 Special precautions for user

Not applicable

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship Type: Not applicable

Hazard code(s): Not applicable

Pollutant Category: Not applicable

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Ethanol

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable



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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

|     |                   |                       |                        |
|-----|-------------------|-----------------------|------------------------|
| P5c | FLAMMABLE LIQUIDS | Quantity 1<br>5.000 t | Quantity 2<br>50.000 t |
|-----|-------------------|-----------------------|------------------------|

**The components of this product are reported in the following inventories:**

|       |  |
|-------|--|
| TSCA  | : This product is regulated under the United States Food and Drug Act (FDA). |
| DSL   | All components of this product are on the Canadian DSL                       |
| AICS  | On the inventory, or in compliance with the inventory                        |
| ENCS  | Not in compliance with the inventory   |
| KECI  | Not in compliance with the inventory   |
| IECSC | Low volume exemption   |
| PICCS | Not in compliance with the inventory   |

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

**15.2 Chemical safety assessment**

No data available

**SECTION 16: Other information****Further information**

Revision Date: 09.03.2018

**Classification procedure:**



|  |                           |
|--|---------------------------|
| <b>SAFETY DATA SHEET</b>   | Revision Date: 09.03.2018 |
|  | Print Date: 10.12.2018    |
|  | SDS Number: R0718432      |
| Aquastyle™ 300 polymer<br>™ Trademark, Ashland or its subsidiaries, registered<br>in various countries<br>826255 | Version: 1.4              |

|      |  |                        |
|------|--|------------------------|
| H226 | Flammable liquid and vapour.                       | On basis of test data. |
| H319 | Causes serious eye irritation.                     | On basis of test data. |
| H412 | Harmful to aquatic life with long lasting effects. | Calculation method     |

#### Full text of H-Statements

|             |   |
|-------------|---|
| H225        | Highly flammable liquid and vapour.                       |
| H319        | Causes serious eye irritation.                            |
| <b>H412</b> | <b>Harmful to aquatic life with long lasting effects.</b> |

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (+31 10 497 5000).

Sources of key data used to compile the Safety Data Sheet  
 Ashland internal data including own and sponsored test reports  
 The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists  
 BEI : Biological Exposure Index  
 CAS : Chemical Abstracts Service (Division of the American Chemical Society).  
 CMR : Carcinogenic, Mutagenic or Toxic for Reproduction  
 FG : Food grade  
 GHS : Globally Harmonized System of Classification and Labeling of Chemicals.  
 H-statement : Hazard Statement  
 IATA : International Air Transport Association.  
 IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
 ICAO : International Civil Aviation Organization  
 ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"  
 IMDG : International Maritime Code for Dangerous Goods  
 ISO : International Organization for Standardization



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logPow : octanol-water partition coefficient  
 LCxx : Lethal Concentration, for xx percent of test population  
 LDxx : Lethal Dose, for xx percent of test population.  
 ICxx : Inhibitory Concentration for xx of a substance  
 Ecxx : Effective Concentration of xx  
 N.O.S.: Not Otherwise Specified  
 OECD : Organization for Economic Co-operation and Development  
 OEL : Occupational Exposure Limit  
 P-Statement : Precautionary Statement  
 PBT : Persistent , Bioaccumulative and Toxic  
 PPE : Personal Protective Equipment  
 STEL : Short-term exposure limit  
 STOT : Specific Target Organ Toxicity  
 TLV : Threshold Limit Value  
 TWA : Time-weighted average  
 vPvB : Very Persistent and Very Bioaccumulative  
 WEL : Workplace Exposure Level

ABM : Water Hazard Class for the Netherlands  
 ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine  
 CLP : Classification, Labelling and Packaging  
 CSA : Chemical Safety Assessment  
 CSR : Chemical Safety Report  
 DNEL : Derived No Effect Level.  
 EINECS : European Inventory of Existing Commercial Chemical Substances.  
 ELINCS : European List of Notified Chemical Substances  
 GV: Exposure limits (DK)  
 PEC : Predicted Effect Concentration  
 PEL : Permissible Exposure Limits  
 PNEC : Predicted No Effect Concentration  
 R-pharse : Risk phrase  
 REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals  
 RID : Regulation Concerning the International Transport of Dangerous Goods by Rail  
 S-pharse: Safety phrase  
 WGK : German Water Hazard Class