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Aquastyle™ 300 N polymer  ™ Trademark, Ashland or its subsidiaries, registered in various countries 904036	Version: 1.1

# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product identifier** 

Trade name : Aquastyle™ 300 N

polymer

™ Trademark, Ashland or its subsidiaries, registered in

various countries

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

Recommended use : Personal care

Details of the supplier of the safety data sheet	Emergency telephone number 0532 8388 9090
Ashland (China) Holdings Co., Ltd 1089 Zhongshan No.2 rd(s.)18th Floor Xuhuiyuan Building Shanghai 200030 China	Product Information 021 2402 4883
亚什兰(中国)投资有限公司 邮政编码: 200030 上海 200030 中国	
EHSProductSafety@ashland.com	

# 2. HAZARDS IDENTIFICATION

**GHS Classification** 

Flammable liquids : Category 3

Short-term (acute) aquatic

hazard

: Category 3

Long-term (chronic) aquatic

hazard

: Category 3

**GHS** label elements

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Hazard pictograms



Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:** 

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.

No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting

equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

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.

P370 + P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

### Other hazards which do not result in classification

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

# **Hazardous components**

Chemical name	CAS-No.	Classification	Concentration (%)
	Registration number		
1-Dodecanaminium, N,N-	748809-45-2	Acute Tox. 5; H303	>= 30.00 - < 40.00
dimethyl-N-[3-[(2-methyl-1-oxo-2-		Acute Tox. 5; H313	
propenyl)amino]propyl]-, chloride,		Aquatic Acute 3; H402	
polymer with N-[3-		Aquatic Chronic 3;	
(dimethylamino)propyl]-2		H412	

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ETHANOL	Flam. Liq. 2; H225 Eye Dam. 2A; H319 STOT SE 3; H336	>= 10.00 - < 20.00

### 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

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 : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

If eye irritation persists, consult a specialist.

If swallowed : Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: 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.

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 Headache confusion

irregular heartbeat respiratory failure

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Notes to physician : No hazards which require special first aid measures.

## **5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray Foam

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

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 (CO2)

Carbon monoxide

Nitrogen oxides (NOx)

Hydrocarbons Formaldehyde

Specific extinguishing

methods

: Product is compatible with standard fire-fighting agents.

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.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and

: Evacuate personnel to safe areas. Remove all sources of ignition.

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emergency procedures 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. Suppress (knock down) gases/vapours/mists with a water

spray jet.

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.

Methods and materials for containment and 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).

Prevention of secondary

hazards

: Comply with all applicable federal, state, and local regulations. Suppress (knock down) gases/vapours/mists with a water

spray jet.

### 7. HANDLING AND STORAGE

#### Handling

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.

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 smoke.

Container hazardous when empty.

Take precautionary measures against static discharges. 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.

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Avoidance of contact : Acids

Alkali metals Ammonia Bases halogens

inorganic materials Oxidizing agents

reactive metals such as aluminum and magnesium

sodium

Storage

Conditions for safe storage : 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.

Further information on

storage stability

No decomposition if stored and applied as directed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**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

Respiratory protection : In the case of vapour formation use a respirator with an

approved filter within the capabilities of the respirator/filter

combination.

Where concentrations are above recommended limits or are unknown, or a cartridge type respirator is not adequate, wear

a positive-pressure supplied-air respirator.

Hand protection

Material : butyl-rubber
Break through time : 480 min
Glove thickness : > 0.5 mm

Remarks : The exact break through time can be obtained from the

protective glove producer and this has to be observed. Gloves

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should be discarded and replaced if there is any indication of

degradation or chemical breakthrough.

The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Not required under normal conditions of use. Wear splash-

proof safety goggles if material could be misted or splashed

into eyes.

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.

Hygiene measures : Wash hands before breaks and at the end of workday.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : viscous liquid

liquid

Physical state : liquid

Colour : transparent

Odour : characteristic

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : not determined

Boiling point/boiling range : not determined

Flash point : 36 °C

Evaporation rate : not determined

Upper explosion limit : Upper explosion limit

not determined

Lower explosion limit : Lower explosion limit

not determined

Vapour pressure : not determined

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Relative vapour density : not determined

Relative density : No data available

Density : not determined

Solubility(ies)

Water solubility : not determined

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: not determined

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : not determined

Viscosity, kinematic : not determined

Oxidizing properties : Not applicable

# 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Vapours may form explosive mixture with air.

Conditions to avoid : excessive heat

Heat, flames and sparks.

Incompatible materials : Acids

Alkali metals Ammonia Bases halogens

inorganic materials Oxidizing agents

reactive metals such as aluminum and magnesium

sodium

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Hazardous decomposition

products

: Carbon monoxide Carbon dioxide (CO2) hydrogen bromide Hydrocarbons Acetone

### 11. TOXICOLOGICAL INFORMATION

Exposure routes : Inhalation, Skin contact, Eye Contact, Ingestion

## Acute toxicity

Not classified based on available information.

**Product:** 

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

# Components:

1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, chloride,

polymer with N-[3-(dimethylamino)propyl]-2:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Method: OECD Test Guideline 402

ETHANOL:

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

Not classified based on available information.

## **Product:**

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:

Species: Rabbit

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Method: OECD Test Guideline 404

Result: No skin irritation

ETHANOL:

Result: Slight, transient irritation

### Serious eye damage/eye irritation

Not classified based on available information.

## **Product:**

Remarks: Unlikely to cause eye irritation or injury.

#### Components:

1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, chloride, polymer with N-[3-(dimethylamino)propyl]-2:

Species: Rabbit

Result: Slight, transient irritation Method: OECD Test Guideline 405

**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:

Species: Mouse

Assessment: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 429

Result: Did not cause sensitisation on laboratory animals.

### 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:

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.

## Components:

**ETHANOL:** 

Assessment: May cause drowsiness or dizziness.

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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.

### 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

## **Components:**

1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, chloride, polymer with N-[3-(dimethylamino)propyl]-2:

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

No data available

## 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:

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Biodegradability : Primary biodegradation

Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 301B

GLP: yes

Remarks: Not readily biodegradable.

No data available

# 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: Partition coefficient: n- : log Pow: < 2

octanol/water

ETHANOL:

Partition coefficient: n-

octanol/water

: log Pow: -0.31

No data available **Mobility in soil Components:** No data available

Other adverse effects
No data available

**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.

**Components:** 

## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

General advice : 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.

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.

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### 14. TRANSPORT INFORMATION

## International transport regulations

#### REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT /
					LTD. QTY.

### CN DG

Not dangerous goods	

## **INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

Not dangerous go	ods

# INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods	

### INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods
riot dangerede geede

# \*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no

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.

## 15. REGULATORY INFORMATION

## National regulatory information

Regulations on the Control over Safety of Dangerous Chemicals (Decree No. 591 of the State Council of the People's Republic of China)

List of dangerous goods (GB12268-2012)

Classification and code of dangerous goods (GB6944-2012)

Safety Data Sheet for chemical products – Content and order of sections (GB16483-2008) General rule for classification and hazard communication of chemicals (GB13690-2009)

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

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 : Personal care

PICCS : Not in compliance with the inventory

IECSC : Low volume exemption

TCSI : On the inventory, or in compliance with the inventory

TSCA : This product is regulated under the United States Food and

Drug Act (FDA).

## **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) - On or in compliance with the active portion of the TSCA inventory

## **16. OTHER INFORMATION**

# **Further information**

Other information : This sds has been prepared by Ashland.

(http://www.ashland.com)

Sources of key data used to compile the Safety Data

Sheet

Ashland internal data including own and sponsored test

reports

European Union Law with content from the Official Journal of

the European Union.

European Chemicals Agency; the EU authority implementing

the EU's chemicals legislation for companies.

The German Water Hazard Classes.

ReachCentrum; a series of support services to help comply

with REACH regulations.

The European Commission; proposing legislation,

administering and implementing EU policies, and enforcing

EU law.

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The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport. Cefic, the European Chemical Industry Council. ESIS European Chemical Substances Information System

Date format : yyyy/mm/dd

#### **Full text of H-Statements**

H225	Highly flammable liquid and vapour.
H303	May be harmful if swallowed.
H313	May be harmful in contact with skin.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects

#### Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC -New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG -Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN -

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United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

CN / EN