



## SAFETY DATA SHEET

### Hydrocid 300D

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

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

##### 1.1. Product identifier

Product name Hydrocid 300D

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

Identified uses Biocides for water treatment.

Uses advised against No specific uses advised against are identified.

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

Supplier Hydro-X Water Treatment Ltd  
Eden Place  
Outgang Lane  
Dinnington  
Sheffield  
S25 3QT  
+44 (0) 1909 565133  
+44 (0) 1909 564301  
technical@hydro-x.co.uk

##### 1.4. Emergency telephone number

Emergency telephone +44 (0) 1909 565133 (9am-5pm, Mon-Fri)

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification

###### Physical hazards

Not Classified

###### Health hazards

Not Classified

###### Environmental hazards

Aquatic Chronic 2 - H411

###### Classification (67/548/EEC or 1999/45/EC)

N; R51/53

###### Human health

See Section 11 for additional information on health hazards.

###### Environmental

The product contains a substance which may have hazardous effects on the environment.

##### 2.2. Label elements

###### Pictogram



## Hydrocid 300D

### Hazard statements

H411 Toxic to aquatic life with long lasting effects.

### Precautionary statements

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with national regulations.

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Polymeric quaternary ammonium chloride		10 - <25%
CAS number: — EC number: —		
M factor (Acute) = 1 M factor (Chronic) = 1		
<b>Classification</b>		<b>Classification (67/548/EEC or 1999/45/EC)</b>
Aquatic Acute 1 - H400		N; R50/53
Aquatic Chronic 1 - H410		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

#### Ingestion

Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any discomfort continues.

#### Skin contact

Wash skin thoroughly with soap and water. Get medical attention if symptoms are severe or persist after washing.

#### Eye contact

Remove any contact lenses and open eyelids wide apart. Rinse cautiously with water for several minutes. Get medical attention if irritation persists after washing.

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

#### Inhalation

May cause irritation.

#### Ingestion

May cause discomfort if swallowed.

#### Skin contact

May cause skin irritation.

#### Eye contact

May cause temporary eye irritation.

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

#### Notes for the doctor

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

#### Specific treatments

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

## Hydrocid 300D

### **Suitable extinguishing media**

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

### **Unsuitable extinguishing media**

Do not use water jet as an extinguisher, as this will spread the fire.

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

### **Hazardous combustion products**

Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Toxic gases or vapours.

## **5.3. Advice for firefighters**

### **Protective actions during firefighting**

Avoid breathing fire gases or vapours. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Control run-off water by containing and keeping it out of sewers and watercourses. Ventilate closed spaces before entering them.

### **Special protective equipment for firefighters**

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## **SECTION 6: Accidental release measures**

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

#### **Personal precautions**

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.

### **6.2. Environmental precautions**

#### **Environmental precautions**

Toxic to aquatic life with long lasting effects. Avoid discharge to the aquatic environment. Do not discharge into drains or watercourses or onto the ground.

### **6.3. Methods and material for containment and cleaning up**

#### **Methods for cleaning up**

Wear protective clothing as described in Section 8 of this safety data sheet. Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Do not empty into drains. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Dispose of contents/container in accordance with national regulations.

### **6.4. Reference to other sections**

#### **Reference to other sections**

See Section 11 for additional information on health hazards. For waste disposal, see Section 13.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Usage precautions**

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.

#### **Advice on general occupational hygiene**

No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

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

#### **Storage precautions**

Store in a cool and well-ventilated place.

### **7.3. Specific end use(s)**

## Hydrocid 300D

### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Ingredient comments

No exposure limits known for ingredient(s).

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Provide eyewash station.

#### Eye/face protection

Chemical splash goggles.

#### Hand protection

Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacture, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374.

#### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

#### Hygiene measures

Wash contaminated skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet.

#### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

#### Environmental exposure controls

Keep container tightly sealed when not in use. Avoid discharge to the aquatic environment.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

Liquid.

#### Colour

Colourless to pale yellow.

#### Odour

Mild.

#### Odour threshold

Not available.

#### pH

pH (concentrated solution): 5 - 8

#### Melting point

Not available.

#### Initial boiling point and range

~100°C @ 760 mm Hg

#### Flash point

## Hydrocid 300D

Not available. > 100°C CC (Closed cup).

### Evaporation rate

Not available.

### Evaporation factor

Not available.

### Flammability (solid, gas)

Not relevant.

### Upper/lower flammability or explosive limits

Not available.

### Vapour pressure

Not available.

### Vapour density

Not available.

### Relative density

1-1.15 @ 25°C

### Bulk density

Not available.

### Solubility(ies)

Miscible with water.

### Partition coefficient

Not available.

### Auto-ignition temperature

Not available.

### Decomposition Temperature

Not available.

### Viscosity

Not available.

### Explosive properties

Not considered to be explosive.

### Oxidising properties

Does not meet the criteria for classification as oxidising.

## 9.2. Other information

### Other information

No information required.

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

#### Stability

Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

Will not polymerise.

### 10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time.

### 10.5. Incompatible materials

## Hydrocid 300D

### Materials to avoid

Strong oxidising agents.

### 10.6. Hazardous decomposition products

None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

##### Notes (oral LD50)

Based on available data the classification criteria are not met.

#### Acute toxicity - dermal

##### Notes (dermal LD50)

Based on available data the classification criteria are not met.

#### Acute toxicity - inhalation

##### Notes (inhalation LC50)

Based on available data the classification criteria are not met.

#### Skin corrosion/irritation

##### Animal data

Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

Based on available data the classification criteria are not met.

#### Respiratory sensitisation

Based on available data the classification criteria are not met.

#### Skin sensitisation

Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

##### Genotoxicity - in vitro

Based on available data the classification criteria are not met.

##### Genotoxicity - in vivo

Based on available data the classification criteria are not met.

#### Carcinogenicity

Based on available data the classification criteria are not met.

#### Reproductive toxicity

##### Reproductive toxicity - fertility

Based on available data the classification criteria are not met.

#### Specific target organ toxicity - single exposure

##### STOT - single exposure

Based on available data the classification criteria are not met.

#### Specific target organ toxicity - repeated exposure

##### STOT - repeated exposure

Based on available data the classification criteria are not met.

#### Aspiration hazard

Not anticipated to present an aspiration hazard, based on chemical structure.

## SECTION 12: Ecological Information

### Ecotoxicity

The product contains a substance which may have hazardous effects on the environment.

**Hydrocid 300D****12.1. Toxicity**

Toxic to aquatic life with long lasting effects.

**12.2. Persistence and degradability****Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

No data available on bioaccumulation.

**Partition coefficient**

Not available.

**12.4. Mobility in soil****Mobility**

The product is soluble in water.

**12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

**12.6. Other adverse effects**

Not determined.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal methods**

Reuse or recycle products wherever possible. When handling waste, the safety precautions applying to handling of the product should be considered. Do not discharge into drains or watercourses or onto the ground. Dispose of contents/container in accordance with national regulations.

**SECTION 14: Transport information****14.1. UN number**

UN No. (ADR/RID)	3082
UN No. (IMDG)	3082
UN No. (ICAO)	3082
UN No. (ADN)	3082

**14.2. UN proper shipping name**

Proper shipping name (ADR/RID)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS POLYMERIC QUARTENARY AMMONIUM CHLORIDE)
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS POLYMERIC QUARTENARY AMMONIUM CHLORIDE)
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS POLYMERIC QUARTENARY AMMONIUM CHLORIDE)
Proper shipping name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS POLYMERIC QUARTENARY AMMONIUM CHLORIDE)

**14.3. Transport hazard class(es)**

ADR/RID class	9
ADR/RID classification code	M6
ADR/RID label	9
IMDG class	9
ICAO class/division	9

**Hydrocid 300D**

ADN class 9

Transport labels

**14.4. Packing group**

ADR/RID packing group III

IMDG packing group III

ICAO packing group III

ADN packing group III

**14.5. Environmental hazards**

Environmentally hazardous substance/marine pollutant



Yes.

**14.6. Special precautions for user**

EmS F-A, S-F

ADR transport category 3

Emergency Action Code •3Z

Hazard Identification Number (ADR/RID) 90

Tunnel restriction code (E)

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations**

EH40/2005 Workplace exposure limits. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

**EU legislation**

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information****Classification procedures according to Regulation (EC) 1272/2008**

Aquatic Chronic 2 - H411: Calculation method.

Revision date 04/09/2014

SDS number 1438

Risk phrases in full



### **Hydrocid 300D**

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### **Hazard statements in full**

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

#### **Disclaimer**

The information contained in this safety data sheet does not constitute an assessment of workplace risks. The customer should undertake a formal COSHH assessment which should ensure that employees are aware of the hazards/precautions detailed in this safety data sheet. The COSHH assessment should also ensure that recommended safety equipment is available and where applicable, that the exposure limits detailed in Section 8 are not being exceeded. The above information is based on current knowledge at the time of publication and is given in good faith. Hydro-X Water Treatment Ltd implies no warranty as to the suitability of the product for any purpose other than outlined on the Product Data Sheet.