

# SAFETY DATA SHEET

## AQUA C FISH PLUS



Version 1.0      Revision Date: 23.06.2020      SDS Number: 122000011388      Date of last issue: -  
Date of first issue: 23.06.2020

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### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifier

AQUA C FISH PLUS

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

Use of the Sub-stance/Mixture : Vitamin preparation

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

##### Company

Elanco Vietnam Company Limited  
11 Doan Van Bo Street, 24th Floor  
HO CHI MINH CITY  
VIETNAM  
+8428 38166266  
elanco\_sds@elanco.com

#### 1.4 Emergency telephone number

In case of emergency: CHEMTREC International: +1 703-527-3887 (24 hours)

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### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Skin corrosion/irritation : Category 3

Serious eye damage/eye irritation : Category 1

#### GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H316 Causes mild skin irritation.  
H318 Causes serious eye damage.

Precautionary statements : **Prevention:**  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
**Response:**  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with

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water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.

### Other hazards which do not result in classification

None known.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Citric acid	77-92-9	>= 15 -< 30
Calcium diformate	544-17-2	>= 3 -< 5

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### 4. FIRST AID MEASURES

General advice : Take off all contaminated clothing immediately.

If inhaled : Remove to fresh air.  
If symptoms persist, call a physician.

In case of skin contact : After contact with skin, wash immediately with plenty of soap and water.  
If skin reactions occur, contact a physician.

In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed : If swallowed, seek medical advice immediately and show this container or label.

Most important symptoms and effects, both acute and delayed : No information available.

Notes to physician : No information available.

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### 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Any

Specific hazards during fire-fighting : Fire may cause evolution of:  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)

Specific extinguishing methods : Prevent fire extinguishing water from contaminating surface water or the ground water system.

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

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### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Avoid dust formation.

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

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### 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : No special protective measures against fire required.

Advice on safe handling : Avoid dust formation. Use with local exhaust ventilation. Avoid contact with skin, eyes and clothing.

Conditions for safe storage : For storage suitable stores with adequate product-reception volume must be used. During handling local official regulations must be observed in order to avert impairment of water by the product.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.

#### Hand protection

Material : Hand protection: protective gloves for chemicals made of Baypren, nitrile rubber or PVC wear

Remarks : Breakthrough time not tested; dispose of immediately after contamination. Advice: The gloves should not be reused.

Eye protection : Safety glasses

Protective measures : Wear suitable protective equipment.

Hygiene measures : Cleanliness Guidelines (GMP) for manufacturing of drugs

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must be observed!

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	solid
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Explosive properties	:	No statements available.
Oxidizing properties	:	No data available
Impact sensitivity	:	No data available
Minimum ignition energy	:	No data available

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### 10. STABILITY AND REACTIVITY

Reactivity	:	No data available
Chemical stability	:	No data available
Possibility of hazardous reactions	:	No data available
Conditions to avoid	:	No data available
Incompatible materials	:	No data available
Hazardous decomposition products	:	Carbon monoxide (CO) Carbon dioxide (CO <sub>2</sub> )

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### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute oral toxicity	:	Acute toxicity estimate (ATE): > 5.000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate (ATE): > 40 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate (ATE): > 5.000 mg/kg Method: Calculation method

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### Components:

#### **Citric acid:**

Acute oral toxicity : LD50 (Rat): 3.000 mg/kg

#### **Calcium diformate:**

Acute oral toxicity : LD50 (Rat): 2.650 mg/kg  
Assessment: The component/mixture is minimally toxic after single ingestion.

### **Skin corrosion/irritation**

#### Components:

#### **Citric acid:**

Species : Rabbit  
Exposure time : 72 h  
Method : OECD 404  
Result : Mild skin irritation

### **Serious eye damage/eye irritation**

#### Components:

#### **Citric acid:**

Species : Rabbit  
Result : Eye irritation  
Exposure time : 72 h  
Assessment : Causes serious eye irritation.  
Method : OECD 405

#### **Calcium diformate:**

Result : Risk of serious damage to eyes.  
Method : OECD 405

### **Germ cell mutagenicity**

#### Components:

#### **Citric acid:**

Genotoxicity in vitro : Test Type: Ames test  
Result: negative

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## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### Components:

#### **Citric acid:**

Toxicity to microorganisms : EC0 (Bacteria): 10.000 mg/l

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Method: DIN 38412

### Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

### Calcium diformate:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l  
Exposure time: 48 h

Toxicity to microorganisms : EC50 (Activated sludge micro-organism): > 1.000 mg/l  
Exposure time: 3 h

### Ecotoxicology Assessment

Acute aquatic toxicity : slightly hazardous to water

### Persistence and degradability

#### Components:

#### Citric acid:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 98 %  
Exposure time: 2 d  
Method: OECD 302B

Biochemical Oxygen Demand (BOD) : 575 - 675 mg/g

Chemical Oxygen Demand (COD) : 700 - 800 mg/g

#### Calcium diformate:

Biodegradability : Result: rapidly biodegradable  
Biodegradation: 86 %  
Exposure time: 28 d  
Method: The substance has the potential for biodegradation in the marine environment (OECD 306).

### Bioaccumulative potential

#### Components:

#### Citric acid:

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: -1,61  
Method: experimental

#### Calcium diformate:

Partition coefficient: n-octanol/water : log Pow: -2,3

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### Mobility in soil

No data available

### Other adverse effects

#### Product:

Additional ecological information : Do not allow to enter surface waters or groundwater.

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## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging : Contaminated, empty containers are to be treated in the same way as the contents.

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## 14. TRANSPORT INFORMATION

### IATA-DGR

Not regulated as a dangerous good

### IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

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## 15. REGULATORY INFORMATION

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

Law on Chemicals No. 06/2007/QH12

Montreal Protocol (Ozone Depleting Substances) : Not applicable

Rotterdam Convention (Prior Informed Consent) : Not applicable

Stockholm Convention (Persistent Organic Pollutants) : Not applicable

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## 16. OTHER INFORMATION

Date format : yyyy/mm/dd

### Full text of other abbreviations

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

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