

## Aquatabs Inline

Code: 037G0

### Material Safety Data Sheet compliant with Regulation (EC) 2015/830

Version **6.0.0**

Revision: **13/10/20**

Print Date : 13/10/20

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Trade name                      Aquatabs Inline

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

Use of the product

Tablets  
Breeding  
Aquatabs Inline is a continuous drinking water treatment system for farm animals.

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

Company identification

Distributed by Kilco (International) Ltd  
Broomhouses 2 Industrial Estate  
Old Glasgow Road - Lockerbie  
United Kingdom DG11 2SD

For information regarding this safety data sheet, please contact :  
[regulatory@kersia-group.com](mailto:regulatory@kersia-group.com)

### 1.4. Emergency telephone number

Emergency phone number                      Call NHS 111 or a doctor

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

The mixture meets the classification criteria provided for under Regulation (EC) No 1272/2008.

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|  |   |
|--|---|
| Oxidising solid - Category 2   | EUH 031: Contact with acids liberates toxic gas.            |
| Acute toxicity - Category 4 (per oral route)                         | H272: May intensify fire; oxidiser.                         |
| Eye irritation - Category 2  | H302: Harmful if swallowed.                                 |
| Specific target organ toxicity (STOT) - single exposure - Category 3 | H319: Causes serious eye irritation.                        |
| Hazardous to the aquatic environment – Acute - Category 1            | H335: May cause respiratory irritation.                     |
| Hazardous to the aquatic environment – Chronic - Category 1          | H400: Very toxic to aquatic life.                           |
|  | H410: Very toxic to aquatic life with long lasting effects. |

## 2.2. Label elements

Labelling according to 1272/2008/EC Regulation:

Hazard pictograms(s) :



Signal word :

Danger

Contains : Symclosene

Hazard statement(s) :

H272: May intensify fire; oxidiser. H302: Harmful if swallowed. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H410: Very toxic to aquatic life with long lasting effects. EUH 031: Contact with acids liberates toxic gas.

Precautionary statement(s) :

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P221: Take any precaution to avoid mixing with combustibles. P273: Avoid release to the environment. P280: Wear protective gloves/eye protection. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313: If eye irritation persists: Get medical advice/attention. P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

## 2.3. Other hazards

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No additional information available.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable as this involves a mixture.

### 3.2. Mixtures

Chemical nature of the mixture : Tablets

| Substance(s)      | CAS number(s) | EINECS number(s) | No registration REACH | Classification according to Regulation 1272/2008/EC  | Type |
|-------------------|---------------|------------------|-----------------------|--|------|
| Symclosene = 100% | 87-90-1       | 201-782-8        |                       | Ox. Sol. 2 H272<br>Aquatic Acute 1 H400<br>Aquatic Chronic 1 H410<br>Acute Tox. 4 (oral) H302<br>Eye Irrit. 2 H319<br>STOT SE 3 H335 | (1)  |

#### Type

- (1) : Substance classified as hazardous for health and/or the environment
  - (2) : Substance with an exposure limit at the work station.
- Substance of very high concern candidate for the authorisation procedure:
- (3) : Substance considered as PBT (persistent, bioaccumulable, toxic)
  - (4) : Substance considered as vPvB (very persistent, very bioaccumulable)
  - (5) : Substance considered as carcinogenic category 1A
  - (6) : Substance considered as carcinogenic category 1B
  - (7) : Substance considered as mutagenic category 1A
  - (8) : Substance considered as mutagenic category 1B
  - (9) : Substance considered as reprotoxic category 1A
  - (10) : Substance considered as reprotoxic category 1B
  - (11) : Substance considered as endocrine disrupter

Full text of H- and EUH- phrases : see section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General indications:

- Take the contaminated clothes and shoes off immediately. Wash them before wearing them again.
- In case of faintness , get medical advice/attention. Show this safety data sheet to the doctor.

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In the event of inhalation :

Bring to fresh air.

Put into practice respiratory help procedure if needed and get medical advice immediately.

In the event of contact with the skin :

Take off immediately all contaminated clothing.

Wash immediately with plenty of water for 15 minutes at least.

If any sign of irritation appears, consult a dermatologist.

In the event of contact with the eyes :

Rinse at once with a soft stream of water for at least 15 minutes, eyes wide open.

Remove contact lenses if present and easy to do. Continue rinsing.

Systematically consult an ophthalmologist in case of sore or red eyes and/or eye discomfort.

In the event of ingestion :

Rinse mouth.

Do NOT induce vomiting.

Send to hospital.

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

Skin contact : Severe irritation of the skin.

Symptoms: Redness, swollen tissues, burns.

Eye contact : Irritating to eyes - Risk of serious damage to eyes.

Ingestion : Risk of mouth, oesophagus and stomach burns

Risk of perforating digestive tracts.

Inhalation : Severe irritant for the respiratory system.

Symptoms: Breathing difficulties, cough, chronic pneumonia, pulmonary oedema.

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

Treatments : Symptomatic treatment

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

Suitable extinguishing media :

Sprayed water or water mist.

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Unsuitable extinguishing media :  
None from our knowledge.

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

In the event of fire, emission of pollutant gases and irritating vapors.

- carbon monoxide (CO)
  - carbon dioxide (CO<sub>2</sub>)
  - nitrogen dioxide (NO<sub>2</sub>)
  - chlorine compounds
- Nitrogen trichloride

#### 5.3. Advice for firefighters

Wear independent respiratory equipment and protective suit.  
Collect contaminated firefighting water separately, must not be discharged into the drains.  
Keep containers cool by spraying with water if exposed to fire.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

##### 6.1.1. For non-emergency personnel :

Evacuate non-essential staff and those not equipped with individual protection apparatus.  
Avoid all contact with the skin and eyes.  
Prohibit all sources of sparks and ignition.

##### 6.1.2. For emergency responders :

Evacuate the personnel to a safe location.  
Keep people upwind and away from the location of the flow/leak.  
Use personal protection equipment.

#### 6.2. Environmental precautions

Intervention limited to trained staff.  
Do not discharge the product directly to sewer or to environment.  
Take as soon as possible all incompatible materials away.

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

Small spillage :  
Sweep mechanically.  
Recover in a reservoir of help.

Large spillage :

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Collect in suitable containers.  
 Keep in suitable, properly labelled and closed containers for disposal.  
 Never return spills in original containers for re-use.

#### 6.4. Reference to other sections

Respect protective measures presented at heading 8.  
 Refer to section 13 for the elimination.

### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Handle the product with care.  
 When using do not eat, drink or smoke.  
 Keep away from incompatible matters (see heading 10).

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

##### 7.2.1. Storage :

Keep only in original packaging.  
 Keep container closed.  
 Keep in a clean, cool and well-ventilated place away from sources of heat and intense light.  
 Do not expose to temperature above 50°C.  
 Keep away from incompatible matters (see heading 10).

##### 7.2.2. Packaging or wrapping materials :

Keep only in original packaging.

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

Aquatabs Inline is for use as a biocide.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

Exposure limit values :

| Substance | Country | Type           | Value | Unit              | Comments | source   |
|-----------|---------|----------------|-------|-------------------|----------|--|
| Chlorine  | GBR     | OEL Short term | 0,5   | ppm               |          | International limit values for chemical agents |
|           |         |                | 1,5   | mg/m <sup>3</sup> |          | International limit values for chemical agents |

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#### 8.2. Exposure controls

According to the requirements of Directive 98/24 /EC, the employer is required to conduct a risk assessment and implement appropriate risks management measures.

\* For any situation where the absence of risk is not proven, he must consider the substitution or reduction of risk by improving in priority processes used and collective protection measures. The effectiveness of the solutions implemented will be checked by measurement in comparison to the statutory limit values for substances defined in Section 8.1.

\* If the risk remains after these corrective actions, he must always check by routinely measuring compliance with regulatory OEL if they exist in section 8.1 and apply all the individual protective measures given in section 8.2.

\* When formalized risk assessment indicates a low risk to workers' health, control of compliance with regulatory OEL may not be considered and all individual protection measures is not always mandatory.

##### 8.2.1. Appropriate engineering controls :

Apply the necessary technical measures to comply with the professional exposure limit values.  
Provide adequate ventilation, particularly in closed areas.

##### 8.2.2. Individual protection measures, such as personal protective equipment :

Eye/face protection :

Wear safety goggles compliant with standard EN 166.



Hand protection :

Use chemical resistant gloves approved to EN 374.

Examples of materials for insulating gloves:

Neoprene.



Skin protection :

Wear boots and a protective cloth with chemical resistance.



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#### Respiratory protection :

If the ventilation is insufficient, wear an approved mask fitted with a particle filter and adhere to the manufacturer's instructions.

B: Inorganic gases and vapors.



#### Thermal hazards :

Not applicable

#### Health measures :

Safety shower and eye wash fountain near to workplace.

After using, wash systematically all personal protective equipment.

#### 8.2.3. Environmental exposure controls :

Do not discharge the product directly to sewer or to environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

|  |                              |
|--|------------------------------|
| Appearance                             | granules or tablet-form      |
| Colour                                 | White                        |
| Odour                                  | Chlorinated                  |
| Odour threshold                        | Not available                |
| pH value at 10g/l                      | 2.8±0.1                      |
| Freezing point :                       | Not applicable               |
| Melting point                          | 225 - 230 °C                 |
| Boiling point                          | Not applicable               |
| Flash point                            | Not applicable               |
| Evaporation rate:                      | Not applicable               |
| Flammability                           | Not available                |
| Vapour pressure                        | Not applicable               |
| Vapour density                         | Not applicable               |
| Mass density                           | 1.16 - 1.9 g/cm <sup>3</sup> |
| Solubility in water                    | 1.2 g/100ml                  |
| Partition coefficient: n-octanol/water | Not applicable               |
| Auto-ignition temperature              | Not applicable               |
| Decomposition temperature              | 225 °C                       |
| Viscosity                              | Not applicable               |
| Explosive properties                   | Not available                |
| Oxidising properties                   | Oxidising product            |

### 9.2. Other information



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No additional information.

#### SECTION 10: STABILITY AND REACTIVITY

##### 10.1. Reactivity

Hazards linked to exothermal reactions.

##### 10.2. Chemical stability

Stable in the recommended storage and handling conditions.

##### 10.3. Possibility of hazardous reactions

Dilution with water is exothermic.

##### 10.4. Conditions to avoid

High temperatures.

##### 10.5. Incompatible materials

Acids.  
Basis.  
Organic matters.  
Fuel matters.  
Oxidants.  
Reducing agents.

##### 10.6. Hazardous decomposition products

Contact with acids liberates gaseous chlorine.

These data are given for the concentrated mixture. The use of the mixture under its diluted form must be performed in conformity with data given by the technical data sheet and the technical adviser.

#### SECTION 11: TOXICOLOGICAL INFORMATION

##### 11.1. Information on toxicological effects

###### Substance-related data:

Not available

###### Mix-related data: :

Acute toxicity  
LD 50 - oral rat 809 mg/kg. - MSDS supplier  
LD 50 - dermal rabbit > 2,000 mg/kg. - MSDS supplier

Skin corrosion/irritation  
. May cause a skin irritation.

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#### Serious damage to eyes/eye irritation

. Causes serious eye irritation according to the criteria of the 1272/2008/EC.

#### Respiratory / skin sensitisation

Skin sensitisation . The mixture is not considered as a skin sensitiser according to 1272/2008/EC Regulation. - MSDS supplier

Respiratory sensitisation . The mixture is not considered as a respiratory sensitiser according to 1272/2008/EC Regulation. - MSDS supplier

#### Mutagenicity

. The classification criteria are not met given the available data.

#### Carcinogenicity

. The classification criteria are not met given the available data.

#### Reproductive toxicity

. The classification criteria are not met given the available data.

#### Specific target organ toxicity - single exposure

. Irritating to respiratory system.

#### Specific target organ toxicity - repeated exposure

. The classification criteria are not met given the available data.

#### Aspiration hazard

. The classification criteria are not met given the available data.

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

Skin contact : Severe irritation of the skin.

Symptoms: Redness, swollen tissues, burns.

Eye contact : Irritating to eyes - Risk of serious damage to eyes.

Ingestion : Risk of mouth, oesophagus and stomach burns

Risk of perforating digestive tracts.

Inhalation : Severe irritant for the respiratory system.

Symptoms: Breathing difficulties, cough, chronic pneumonia, pulmonary oedema.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. à 12.4. Toxicity - Persistence and degradability - Bioaccumulative potential - Mobility in soil

#### Substance-related data:

Not available

#### Mix-related data:

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#### Acute toxicity

LC 50 - 96hours fishes (Truite arc en ciel) 0.32 mg/L. - MSDS supplier

LC 50 - 48hours daphnia (Daphnia magna) 0.21 mg/L. - MSDS supplier

#### Chronic toxicity

. No data available.

#### Degradability

. Not determined

#### Bioaccumulation

. No data available.

#### Mobility

. No data available.

#### Conclusion :

The mixture is considered to be dangerous for the environment according to 1272/2008/EC Regulation.

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

This mixture does not contain any substances that are assessed to be a PBT or a vPvB

#### 12.6. Other adverse effects

No additional information available.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

##### Treatment of the mixture :

Do not discharge the product directly to sewer or to environment.

Comply with Directive 2008/98/EC of 19/11/2008 amended, relating to waste and to Decision 2000/532/EC (amended ultimately by Decision 2014/955/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

##### Packaging treatment :

Rinse thoroughly the packaging with water and treat the effluent like wastes.

Comply with Directive 2008/98/EC of 19/11/2008 amended, relating to waste and to Decision 2000/532/EC (amended ultimately by Decision 2014/955/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

### SECTION 14: TRANSPORT INFORMATION

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#### ROAD TRANSPORT:

Rail/Route (RID/ADR)

UN no : 2468

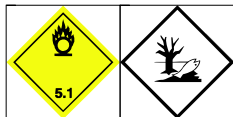
UN proper shipping name : TRICHLOROISOCYANURIC ACID, DRY

Transport hazard class(es) : 5.1

Packing group : II

Hazard code : 50

Label : 5.1



Tunnel code : E

Environmental hazard : Yes (Symclosene)

Special precautions for user : No information.

Limited Quantity (QL): 1kg

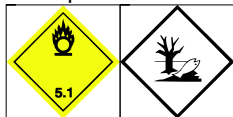
#### MARITIME TRANSPORT :

IMDG

UN no :2468

UN proper shipping name : TRICHLOROISOCYANURIC ACID, DRY

Transport hazard class(es) : 5.1



Packing group : II

Marine pollutant : Yes (Symclosene)

Special precautions for user : No information.

EmS number : F-A,S-Q

Limited Quantity (QL): 1kg

Transport in bulk according to Annex II of MARPOL and the IBC Code :

Not concerned

## SECTION 15: REGULATORY INFORMATION

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

Regulations relating to the hazards from major accidents :

SEVESO 3 Directive (2012/18/EC) : P8 E1

Regulations relating to the classification, packing and labelling of substances and mixes :

Regulation 1272/2008/EC amended.

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#### Waste regulations :

2008/98/EC Directive amended by 2015/1127/EC Directive - Regulation 1357/2014/EC  
Decision 2014/955/EC which establishes the list of hazardous waste.

#### Protection of workers :

Directive 98/24/EC of 07/04/1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.

Regulation (EU) 2019/1021 of 20 June 2019 on persistent organic pollutants : Not applicable

Regulation 1005/2009/EC amended on substances that deplete the ozone layer : Not applicable

#### Regulation (EC) 648/2004 :

Not concerned

Comply with national and local legislation.

#### 15.2. Chemical safety assessment

No

### SECTION 16: OTHER INFORMATION

The safety data sheet is additional to the technical data sheet but does not replace it. The information given here in is to the best of our knowledge correct and is given in good faith. We must also draw the user's attention on potential risks of the product is used for other purposes for which the product is known. In no way does it exempt users from being aware of and complying with regulations applicable to their activity. It is their sole responsibility to take all necessary precautions in accordance to the usage of the product they are aware of.

Regulations are only stated in order to help users fulfill the duties involved in the use of the product.

This description should not be considered as exhaustive. It does not exempt users from ensuring if other demands need to be complied with-according to other laws than the ones hereby stated and applicable to holding and usage of the product-demands for which they will remain sole responsibility.

#### Section(s) modified compared with the previous version :

Not concerned

List of H phrases referred to in sections 2 and 3 :

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H272 : May intensify fire; oxidiser.

H302 : Harmful if swallowed.

H319 : Causes serious eye irritation.

H335 : May cause respiratory irritation.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.

Sources of key data used to compile the data sheet :

MSDS supplier

Historical :

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Cancels and replaces previous version .