



SAFETY DATA SHEET

Issue date: April 2015, revision 1.0

1. PREPARATION AND COMPANY IDENTIFICATION

1.1 - Preparation identification

Trade name: **AQUATAIN AMF™**

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

Identified use: Ready to use liquid product for environmentally friendly control of mosquito larvae 2. HAZARDS IDENTIFICATION

2.1 - Classification of the substance or mixture

The preparation is not classified as hazardous under the provisions of the EEC/67/548 and EC/1999/45 directives and/or of the EC Regulation 1272/2008 (CLP) and of the modifications and amendments thereto. However, since the mixture contains hazardous substances, a safety data sheet shall be provided in accordance with the provisions of the EC Regulation 1907/2006 and successive modifications. Further information on the risks to human health and/or environmental hazards can be found in sections 11 and 12 of this sheet.

DANGER SYMBOLS: None

RISK PHRASES: None

2.1.1 - Classification according to Regulation No 1272/2008 (CLP) and successive modifications and amendments

DANGER SYMBOLS: None

H STATEMENTS: None

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2.2 - Label elements**Hazard pictograms:**

None

*"Safety data sheet available on request"***Precautionary statements (P):**

P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.

Risk phrases (R): None

REMARKS: please also see the information contained in the product label. Do not eat. Handle with care. Avoid contact with eyes. During use, keep away from food, beverages or containers meant for them. After handling and in case of accidental contact rinse thoroughly with water and soap. Do not use the container again. The empty container shall not be released to the environment.

2.3 - Other hazards

Information not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Not applicable

3.2 Mixtures

Chemical description: Liquid product for mosquito control.

Content:

CHEMICAL NAME	CONC.	CEE/67/548 CLASSIFICATION	1272/2008 (CLP) CLASSIFICATION
WHITE MINERAL OIL CAS 8042-47-5 EC 232-455-8 EU INDEX // REG. NO. 01-2119487078-27-0010	7-8%	-	Asp. Tox. 1 H304
POLYDIMETHYLSILOXANE (PDMS silicone) CAS 63148-62-9 EINECS // EU INDEX // REG. NO. Not Applicable	86-90 %	-	-

T+ = Very toxic (T+), T = Toxic (T), Xn = Harmful (Xn), C = Corrosive (C), Xi = Irritating (Xi), O = Oxidizing (O),
 E = Explosive (E), F+ = Extremely flammable (F+), F = Highly flammable (F), N = Dangerous for the environment (N)
 The full text of risk phrases (R) and hazard (H) phrases is given in section 16 of this data sheet.

4. FIRST AID MEASURES4.1 Description of first aid measures

General measures: In case of doubt or of symptom persistence, consult a doctor, supplying all label and safety data sheet information. In case of accident, first aid must be provided by trained staff in order to avoid any further damage or complication to the injured person.

Contact with eyes:	Remove contact lenses, if applicable. Wash for at least 10' with plenty of possibly running water keeping the eyelids open. Afterwards protect the eyes with a dry sterile gauze or with a dry and clean handkerchief. SEEK MEDICAL ADVICE. Do not use eyewash or ointments of any kind before an examination or unless upon advice from an ophthalmologist.
Contact with skin:	Remove contaminated clothing. Wash with plenty of soap and running water the body parts that have been in contact with the preparation.
Inhalation:	Take outdoors and let rest. In case the person continues to feel unwell, seek medical advice.
Ingestion:	Seek medical advice immediately and show the physician this safety data sheet. Do not induce vomiting to avoid the risk of aspiration into the respiratory tract.

4.2 Most important symptoms and effects, both acute and delayed

For symptoms and effects caused by the contained substances refer to section 11

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment and monitoring of vital functions

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Dry powder, CO₂, water spray jet, foam.

Unsuitable extinguishing media: Water jet. Water is not suitable to extinguish a fire, however it can be used to cool down the containers exposed to the flames preventing bursts and explosions.

5.2 Special hazards arising from the substance or mixture

Special risks in fire situation: In case of fire the mixture may produce toxic gases and irritating vapors. Excess pressure may be created in the containers exposed to the flames leading to an explosion risk.

5.3 Advice for firefighters

Protective equipment: Use breathing apparatus (especially in closed spaces) and complete protection suits.

Special procedures: Control propagation. Stay upwind. Do not breath smokes. Use water fog to cool down the containers exposed to the fire. Prevent the fire-extinguishing water from contaminating the environment.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use suitable individual protection means (see section 8) Do not smoke or use flames.

6.2 Environmental precautions

Store the product far from drains, rivers or seawater in order to prevent environmental pollution. If necessary, report to the responsible authority.

6.3 Methods and material for containment and cleaning up

In case the product spreads over the ground, collect it with broom and dustpan without raising dust. Put the collected material into containers for disposal (see section 13).

6.4 Reference to other sections

Information regarding individual protection and disposal is contained in sections 8 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid to eat, drink and smoke. Wear suitable protective clothing (see section 8). After handling rinse with soap and water. Allow for a good ventilation of working areas.

7.2 Conditions for safe storage, including any incompatibilities

Store in the original, closed containers. Keep away from food and beverages and keep out of the reach of children and pets. If possible, store at a temperature between 5°C and 30°C.

7.3 Specific end uses Information not available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Product/ingredient name Exposure limit value	Product/ingredient name Exposure limit value
White mineral oil	White mineral oil ACGIH TLV (United States). Notes: (Mineral oil) TWA: 5 mg/m ³ , (Inhalable fraction) 8 hour(s).

For further details see section 16 (remarks). In case of professional exposure to the mixture, wear personal protection equipment as indicated below.

8.2 Exposure controls

- General precautions:** Use the preparation according to the indications of this sheet. Use the individual protection devices indicated in this section.
- Respiratory protection:** In poorly ventilated rooms where a high concentration of the mixture is likely, adequately protect the respiratory tract (mask with A-filter).
- Hand protection:** Use waterproof gloves resistant to chemical products (ref. standard EN 374).
- Eye protection:** Use protective goggles with lateral protection for the case of accidental contact with eyes. Ensure the availability of showers and eyewash to be used in case of emergency.
- Skin protection:** Use protective gowns.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Appearance:** Liquid
- Colour:** Light
- Odour:** Slight
- Initial boiling point:** > 65 °C
- Flash point:** > 101,1 °C not highly flammable
- Viscosity:** 300 cSt at 40°C

9.2 Other information Information not available

10. STABILITY AND REACTIVITY

10.1 Reactivity

There are no particular hazards of reactivity with other substances in normal conditions of use.

10.2 Chemical stability

Stable in normal conditions of use and of storage.

10.3 Possibility of hazardous reactions

Not foreseen.

10.4 Conditions to avoid

Avoid overheating, electrostatic charges and any ignition source.

10.5 Incompatible materials

Information not available

10.6 Hazardous decomposition products

Dangerous compounds are formed as a result of thermal decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Action of the active substance: Aquatain AMF™ has a physical-mechanical action only. The thin silicon layer that is created on the water surface after the application prevents the proper development of the immature stages of mosquitoes (larvae and pupae).

It prevents larvae and pupae from properly gaining access to atmospheric oxygen, which is necessary for their development to the adult stage, causing their consequent suffocation. As a matter of fact, it prevents larvae and pupae from sticking to the water surface to reach the oxygen in the atmosphere, which they need in order to survive.

Besides, the low surface tension also has an impact on egg laying, as adult female mosquitoes do not lay their eggs on treated water surfaces.

Inhalation:	Preparation toxicity non significant. In any case, avoid inhaling the preparation.
Ingestion:	Preparation toxicity non significant.
Contact with skin:	Preparation toxicity non significant. In any case, avoid direct contact with the preparation.
Contact with eyes:	Preparation toxicity non significant. In any case, avoid direct contact with the preparation.
Toxicological data:	<u>White mineral oil</u> : LD50 (Oral): > 5000 mg/kg rat; LD50 (Dermal): > 2000 mg/kg rabbit; LD50 (Inhalation): > 5000 mg/kg rat.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

White mineral oil: NOEC chronic for fish > 100 mg/l (96 hours), NOEC chronic for crustacea > 100 mg/l (48 hours), NOEC chronic for algae or other aquatic plants > 100 mg/l (72 hours).

12.2 Persistence and degradability

Information not available

12.3 Bioaccumulative potential

Information not available

12.4 Mobility in soil

Information not available

12.5 Results of PBT and vPvB assessment

Information not available

12.6 Other adverse effects

Information not available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

General considerations: Recover the product, if possible. Comply with the local and national regulations. Containers shall not be disposed of in the environment, even if completely empty. If they contain residuals, they must be classified, stored and sent to a suitable treatment facility. In case of non-professional use, the empty container can be disposed of as domestic waste.

Classification: The waste classification represents a manufacturer's obligation. Possible EWC codes: 07 04 13 (organic wastes containing dangerous substances), 16 03 05 (solid wastes containing dangerous substances).

14. TRANSPORT INFORMATION

The product is not considered dangerous under current provisions governing the transport of dangerous goods by road (ADR) and by rail (RID), by sea (IMDG Code) and by air (ICAO/IATA).

15. REGULATORY INFORMATION15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso category: none

Restrictions relating to the product or contained substances pursuant to Annex XVII to (EC) Regulation 1907/2006: none

Substances in Candidate List (Art. 59 REACH): none

Substances subject to authorization (Annex XIV REACH): none

Healthcare controls.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture and for the substances contained in it.

16. OTHER INFORMATION**General considerations:**

All information contained in this safety data sheet correspond to our present knowledge and experience on the product, and shall not be considered exhaustive. But for contrary indications, they apply to the product as it is and in compliance with the specifications. Make sure new combinations and mixtures do not originate new dangers. At any rate, it is the user's responsibility to make sure all information are suitable and complete for the product's intended use. In no way is the user exonerated from complying with the legal and administrative regulations concerning the product, the health, and the safety of the workers and environmental protection. For further information on the product, read the label on the product's package.

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Text of the hazard statements (H) of sections 2-3 in this data sheet:

Asp. Tox. 1
H304

Toxic in case of aspiration, category 1
May be fatal if swallowed and enters airways.

Text of the risk phrases (R) of section 3 in this data sheet:

None

Key reference legislation:

The indications of the following European provisions are complied with:

- 99/45/EC Directive (classification and labelling of dangerous substances) implemented with Leg. Decree No. 65/2003;
- 67/548/EC Directive (classification and labelling of dangerous substances);
- (EC) Regulation 1272/2008 of the European Parliament (CLP);
- 98/24/EC Directive (protection of the health and safety of workers from the risks related to chemical agents) implemented with Leg. Decree 81/2008;
- EC Regulation 1907/2006 (REACH);
- EC Regulation 790/2009 of the European Parliament (I Atp. CLP);
- EC Regulation 453/2010 of the European Parliament;
- Database of the substances GESTIS - IFA (Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung).

- Remarks (section 8):** **TLV-TWA** (Threshold Limit Value -Time Weighted Average): limit values weighted in the 8 hours.
- TLV-STEL** (Threshold Limit Value - Short Time Exposure Limit), maximum allowed value for brief exposures.
- In section 8 the ACGIH (American Conference of Governmental Industries Hygienists) is mentioned. The data concerning the threshold limit values (TLV-TWA) have been extracted from the supplement to Vol.3, no.1 of the Journal of Industrial Hygiene (AIDII) published in 2014 and are referred to the ACGIH values of 2014.
- Further information:** This sheet has been written in collaboration with Bioikòs Ambiente S.r.l. - with headquarters in Via Rivani 99, BOLOGNA (Tel. 051 - 5878211).