Saniswiss biobug aHP K1

Material Safety Data Sheet

1. PRODUCT AND COMPANY

1.1Product identifier

Product name: Saniswiss biobug aHP K1
Product code: 132101

1.2 Identified uses

Use : Biocide insecticid product (PT18)
Contact liquid based on acetamiprid (AL),ready to use

1.3 Supplier's details

Saniswiss SA
ch. des tulipiers 19
1208 Genève - Switzerland

1.4 Emergency call

112

2. HAZARDS IDENTIFICATION

2.1 Classification of the mixture

Classification according to Regulation (EC) No 1272/2008

GHS09
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Identification symbol and letter

Classification according to Regulation (EC) No 1272/2008

Signal word : **Warning**

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement:
P102 Keep out of reach of children

P273 Avoid release to the environment
P312 Call a POISON CENTER or doctor/physician if you feel unwell
P391 Collect spillage
P501 Dispose of contents and container to a waste disposal center

2.3 Other hazards

Results of PBT and vPvB assessment : No data available

3. COMPOSITION / INFORMATION ON COMPONENTS

Chemical characterization: mixture
Description: insecticide liquid based on Acetamiprid, D-tetramethrin & PBO
Hazardous ingredients

Name	N°CAS / EC	Concentration	Classification 67/548/EEC	CLP Classification (R1272/2008)
Active ingredient(s)				
Acetamiprid	*160430-64-8*	*2 g/L*	*Xn R22 – R52/53*	*GHS07 H302 H412*
Piperonyl butoxide	*51-03-6*	*4 g/L*	*N, R50/53*	*GHS09, H 400 H410*
D-Tetramethrin	*1166-46-7*	*1 g/L*	*N 50/53*	*GHS09, H400, H410,*
Other components				
No other component in sufficient concentration				

4. FIRST AID MEASURES

4.1 Description of first aid measures

After skin contact
Remove all soiled clothing and shoes;
Wash with water and soap, and rinse abundantly with water;
In case of persistent irritation, consult a doctor

After eye contact
Rinse immediately and abundantly with water for at least 15 mins, keep eyelids open. Remove contact lenses. In case of persistent irritation, seek medical advice.

After inhalation
Supply fresh air to the victim. Seek medical advice if the victim feel unwell.

After swallowing
Rinse out mouth with plenty of water. Seek medical advice immediately and show packing or label. Do not induce vomiting without medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

CO2, dry chemical powder, foam or water spray

5.2 Special hazards arising from the substance or mixture

Hazardous toxic gas in fumes: oxides of carbon and nitrogen

5.3 Advice for firefighters

Wear self-contained respiratory equipment and full protective suit. Contain runoff to prevent entry into water or drainage systems.

Other recommendations
For safety reasons unsuitable extinguishing agents: water spray/water with full jet if you cannot contain runoff to prevent entry into water or drainage systems.

6. ACCIDENTAL RELEASE MEASURE

6.1 Personal precautions, protective equipement and emergency procedure :

Please notice instructions for person-related safety precautions and wear protective equipment (see 8.). Avoid breathing sprays.

6.2 Environnemental precautions

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid or universal binders, sawdust).
Shovel the solid product into a container suitable for its recovery or disposal.
Place into lockable, labelled salvage container for disposal according to the regulations.
Use a detergent/water mixture as a cleaning agent. Collect cleaning agent in a suitable container after use and dispose according to the regulations.

Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See section 13 for disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Comply with instructions for use.
While handling pay attention to the usually precaution for chemicals.
When using the product do not eat, drink or smoke.
Do not breathe sprays
Avoid unneccessary contact with skin and eyes.

Technical measures
Install an extraction fan at points where vapors form if any. Provide an eye wash and sanitary installations near workplaces.

Specific precautions
Wash hands after handling.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures
Store in tightly closed containers in a cool, well ventilated and dry place. Do not store food,beverages and animal feeding stuffs in the storage area. Keep container tightly sealed. Only store in the original packaging. Do not re-use the empty packaging. Protect from frost.

Temperature
Ambient

7.3 Specific end use(s)

Use only according to instructions.

8. EXPOSURE CONTROL / PERSONNAL PROTECTION

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Based on actual legally binding lists

8.2 Exposure control

General protective and hygienic measures:
Do not eat, drink or smoke at workplace and keep it tidy.
The usual precautionary measures are to be adhered to when handling chemicals.
Remove contaminated clothing and wash carefully before reuse.
Do not inhale vapors/sprays.

Respiratory protection:

No protection required in a normal use case.

Protection of hands:

Protective gloves:

Not necessary in normal conditions of use. In case of intensive use, it is recommended to use chemical resistant protective gloves (norm EN 374-1)
Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed.

Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Not necessary in normal conditions of use. In case of intensive use/confined rooms, it is recommended to use tightly sealed goggles (norm EN 166)

Body protection: Protective work clothing.

Limitation and supervision of exposure into the environment
Do not allow to enter sewers/ surface or ground water.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	liquid
Color	Milky
Odor	caracteristic
pH	4-6
Flash point:	N/A
Relative density:	1 g/ml (0,99-1,01 g/ml)
Solubility:	soluble in water
Flammability	N/A
Explosiveness	N/A

9.2 Other informations

No further relevant information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under usual conditions

10.2 Chemical stability

No decomposition if used according to specifications

10.3 Possibility of hazardous reaction

No hazardous reactions known if used according to specifications

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

None under normal conditions of storage and use. Cox & NOx in fumes in case of fire.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

No data are available for the preparation. All information on acute toxicity is related to the pure active substance(s).

Actives ingredients acute toxicity:
LD/LC50 values relevant for classification:

For the active ingredient : Acetamiprid

Oral LD50	417 mg/kg (rat (male))
	314 mg/kg (rat (female))
Dermal LD50	>2000 mg/kg (rat)
Inhalative LC50/4h	1.15 mg/l (rat)

Primary irritant effect:

Dermal:	Negative
Eye:	Negative

Sensitization:

- **Dermal:**	Negative (guinea pig).
- **Respiratory:**	No data available

Germ cell mutagenicity:

Ames test:	Negative
Chromosomal aberration test:	Positive
Micronucleus test(mouse):	Negative

Uds study: Negative

Carcinogenicity:
Rat: Negative
Mouse: Negative

Reproductive toxicity:
Rat: Negative

Sub-acute toxicity:
90-days repeated dose toxicity test
Noael (rat): 12.4 mg / kg(male), 14.6 mg / kg (female)

Chronic toxicity:
Noael(rat): 7.1mg/kg/day(male), 8.8mg/kg/day (female) (2 years)
Noael (mouse): 20.3 mg/kg/day(male), 25.2 mg/kg/day (female) (1.5 year)

Teratogenicity:
Rat: Negative
Rabbit: Negative

For the active ingredient : D-Tetramethrin
Acute toxicity
Inhalative LC50 (rat) >1.18mg/l
Oral LC50 (rat) >5000mg/kg
Cutané LC50 (rat) >5000mg/kg

Primary irritant effect
Eye (rabbit) negative
Skin (guinea pig) negative
Sensitization (rabbit) negative

Chronic toxicity
Non teratogenic, non carcinogenic, non mutagenic (rat test)

Sub chronic toxicity
NOEL (rat) 300 ppm (oral/ in food/1months)
NOEL (rat) 200 ppm (oral/ in food/6months)

For the active ingredient: PBO
Oral LD50 (rat): 7500 mg/kg
Dermal LD50 (rat): >7950 mg/kg
Inhalation (rat): >5,9 mg/l
Irritant effect :
Eye : non irritant / sensitizing

Additional toxicological information:
No further information available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxical effects:
For the product there are no ecotoxicological data available. All data refer to the active ingredient(s).

Active ingredient toxicity: Acetamiprid

LC50 (Bluegill sunfish)	>119.3 mg/L (96 hrs)
LC50 (Rainbow trout) :	>100 mg/L (96 hrs)
EC50 Daphnia	49.8 mg/L (48 hrs)
EC50 Algae	>98.3 mg /L (72 hrs)

Acute oral toxicity for bee LD50	8.85 µg ai/bee (Acetamiprid 20%)
Acute contact toxicity for bee LD50	9.26 µg ai/bee (Acetamiprid 20%)

Active ingredient toxicity: D-Tetramethrin

LC50/96h (rainbow trout):	10 µg/L
EC50/48h (Daphnia magna):	0.11 mg/L
LC50 (Mallard ducks)	> 5620 mg/kg

Active ingredient toxicity: PBO

LC50 (Cyprinus carpio, 24 h):	5,3 mg/l
LC50 (Daphnia magna, 24 h):	2,95 mg/l
EC50 (Chlorella fusca):	15 mg/l
LD50 (bees):	0,025 mg/bee

General notes:
Do not allow product to reach ground water, water course or sewage system

12.2 persistance and degradability
No data available for the mixture.
For the active ingredient acetamiprid : not readily biodegradable
For the active ingredient D-Tetramethrin : degrades fast in light and in soil
PBO : The substance is not readily biodegradable but will degrade naturally over time

12.3 Bioaccumulative potential

No data available for the mixture.
For the active ingredient acetamiprid : not bioaccumulative.
PBO : Potential to bioaccumulate however, studies have shown rapid degradation in the mammalian metabolism and in the environment.

12.4 Mobility in soil

No data available for the mixture.
For the active ingredient D-Tetramethrin : not mobile

12.5 Results of PBT and vPvB assessment

No data available for the mixture.

12.6 Other adverse effects

No data available for the mixture.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not dispose waste or remains together with domestic waste, do not empty into sink or toilet, hand over to hazardous waste disposers. Do not allow product/contaminated cleaning water to reach ground water, water course or sewage system. Unused product and its packaging must be eliminated as hazardous wastes under their owner responsibility.

Disposal of soiled packaging
Do not reuse empty soiled packaging for other purposes; dispose according to official regulations.

14. Transport information

14.1 UN number

3082

14.2 Un proper shipping name

Environmentally hazardous substance, liquid, n.o.s. (D-Tetramethrin, Piperonyl Butoxide)

14.3 Transport hazard class

9 (Hazard code 90, Item number M7)

14.4 Packing group

III

14.5 Environmental hazards

See pictogram

14.6 Special precaution for user

Not applicable

14.7 transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

O.A.C.I. (by air)

Transport assimilation	:	Environmentally hazardous substance, liquid, n.o.s. (D-Tetramethrin, Piperonyl Butoxide)
UN number	:	3082
Class	:	9
Group	:	III
Label	:	p
Passengers	:	911 (unlimited)
Cargo	:	911 (unlimited)

I.M.D.G. (by sea)

Transport assimilation	:	Environmentally hazardous substance, liquid, n.o.s. (D-Tetramethrin, Piperonyl Butoxide)
UN number	:	3082
Class	:	9
Group	:	III
Label	:	9
Mark	:	Marine pollutant

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation for the mixture

This formulation is beyond the scope of Regulation (EC) No 1005/2009 of European Parliament and the Council of 29 June 2000 on substances that deplete the ozone layer.
This formulation is beyond the scope of Regulation (EC) No 850/2004 of the European Parliament and the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.
This formulation is beyond the scope of Regulation (EC) No 649/2012 of the European Parliament and the Council of 17 June 2008 concerning the export and import of dangerous chemicals.
This formulation is not subject to special provisions for the protection of human health or the environment at Community level.

15.2 Chemical safety assessment

No chemical safety assessment available

16. OTHER INFORMATIONS

R-phrases and H-phrases paragraph 3

R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R23	Toxic if inhaled.
R25	Toxic if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
R43	May cause an allergic skin reaction
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effect

Abbreviations and acronyms:
CAS: Chemical Abstracts Service (division of the American Chemical Society)
EINECS: European Inventory of Existing Commercial Chemical Substances
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CLP: REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the
International Carriage of Dangerous Goods by Road)

Updates:
- CLP classification Added section 2, toxicological/ecotoxicological data added for D-Tetramethrin,
- Components
- section 9, pH, colour.

Also refer to technical instructions for use.

The data contained in this material safety data sheet are based on the current level of scientific and technical knowledge in this domain and at the date of the last update and are given bona fide.
These data cannot be used to confirm the product properties and do not constitute a legal or a contractual covenant. These data shall not be used as an order basis.
This sheet completes the technical data but do not replace them.
The user bears full responsibility for knowing and applying the legal texts, the handling procedures and the safety measures linked to the product use.
The entirety of the regulatory and legal prescriptions mentioned can only be used as a support to help the user fulfilling his duty in the use of the aforementioned product.
It is advised to consult the national or international measures that can apply because the measures contained in this sheet should not be considered to be exhaustive.
This document does not exempt the user to make sure that others obligations devolve upon himself inparticular regarding to product's possession, use or specification and for which he is fully responsible.