



MATERIAL SAFETY DATA SHEET

ECOREX ACTION PLUS

1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY

1.1 Product identifier:

Product name: ECOREX ACTION PLUS
Type of biocide: Insecticide for flying and crawling insects.
Type of formulation: Concentrated water based emulsion.

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

Ecorex Action plus is an insecticide for strictly professional use, in the Environmental and Food Industry.

1.3. Details of the Supplier of the safety data sheet

Company that places the product on the market: MYLVA S.A.
Via Augusta, 48
08006 - BARCELONA
Telephone: +34 93415326
Fax: +34 93 415 63 44
E-Mail: mylva@mylva.es

1.4 Emergency telephone number +34 937001471

2. DANGER IDENTIFICATION

2.1 Classification of the substance or mixture according to Regulation (UE) 1272/2008 (CLP)

Skin sensitization Cat. 1; Aquatic acute Cat. 1; Aquatic chronic Cat.1.

2.2 Label elements



ATTENTION

Hazard statements

H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P391 Collect spillage.
P501 Dispose of contents and container according to local regulations.

2.3 Other hazards

N/A.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

N/A.

3.2 Mixtures

Composition	Tetramethrin	1%
	Permethrin	15%
	P.B.O (Piperonyl butoxyde)	5%
	Solvents and excipients	up to 100%



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Dangerous components

CAS No.	CHEMICAL NAME	CLASSIFICATION ACCORDING TO R1272/2008 (CLP)
52645-53-1	Permethrin	Acute tox. Cat. 4; Skin sens. Cat 1; Aquatic Acute Cat. 1; Aquatic Chronic Cat. 1. H302, H332, H317, H410.
7696-12-0	Tetramethrin	CLASSIFICATION ACCORDING TO R1272/2008 (CLP) Aquatic acute Cat. 1; Aquatic chronic Cat.1. H410
51-03-6	PBO	CLASSIFICATION ACCORDING TO R1272/2008 (CLP) Aquatic acute Cat. 1; Aquatic chronic Cat.1. H410

4. FIRST AID MEASURES

4.1 Description of first aid measures

Remove the person from contaminated area. Remove stained or splashed clothing. Do not administer anything by mouth. Let the patient rest. Maintain body temperature. After the inhalation: Control breathing, if necessary via artificial respiration. If the patient is unconscious, lie him down on his side with his head in a lower position than the rest of his body and semi bent knees. Take the patient to hospital, and if possible, always take the label or container with you. If contact with skin wash skin with plenty of water and soap, without rubbing. If contact with eyes wash eyes with plenty of water for at least 15 minutes. In case of ingestion, do not provoke vomiting. Take the patient to hospital, and if possible, always take the label or container with you. NEVER LEAVE THE PERSON UNATTENDED.

4.2 Most important symptoms and effects, both acute and delayed Text Annex

Dermatitis, eye, nose and throat irritation. Nausea, vomiting, vertigo, headache and oral paresthesias. Hypersensitivity reactions with bronchospasm.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

5. FIRE- FIGHTING MEASURES

Combustibility No

5.1 Extinguishing media

Pulverized water (don't apply jet directly), chemical scum powder or CO₂.

5.2 Special hazards arising from the substance or mixture

The combustion products may be toxic and /or irritant. Measures must be taken to prevent the polluted extinction agent from filtering into the ground or spreading uncontrollably.

5.3 Advice for fire-fighters

Use autonomous respiratory equipment to protect against smoke and also wear protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Secure adequate ventilation. Wear suitable respiratory protection equipment.

6.2 Environmental precautions:

Avoid contamination of drains, surface and subterranean water systems, as well as the ground.

6.3 Methods and material for containment and cleaning up

Avoid spreading with the aid of sand, earth or diatomaceous earth, etc. Pick up the spilled material into hermetic containers, specially marked. The recovered product must be disposed of according to local legislation.

6.4 Reference to other sections

N/A.



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7. HANDLING AND STORAGE

7.1 Precautions for safe handling

HANDLING

Avoid contact with eyes and skin.

7.2 Conditions for safe storage, including any incompatibilities

STORAGE

Special storage instructions

Keep the recipient well closed. Store in a cool and properly ventilated place. Keep away from light and humidity.

Maximum storage temperature 50 °C

Minimum storage temperature 0 °C

7.3 Specific end use(s)

Insecticide for flying and crawling insects.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

EXPOSURE LIMITS VALUES

Maximum exposure limits for professionals: Not established.

Laboral risk limits: Not established.

8.2 Exposure controls

Professional exposure control

Respiratory protection Wear respiratory protection, with filter.

Hand protection Use protective nitrile gloves.

Eye protection Safety glasses with side protection or facial protection.

Skin protection Use adequate protection equipment.

Environmental exposure controls

The product must to be handled and stored according to local legislation. The product is very toxic to aquatic organisms, can cause adverse long term effects on the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Liquid
Colour: White
Odour: Characteristic

Important information in relation to health, safety and the environment

Flash point: > 65 °C
Freezing temperature: <0 °C
Features: Free of aromatic hydrocarbons
Boiling point: Not determined
Solubility in water: Emulsifiable
Autoignition: Not determined
Distillation interval: Not determined
Vapor pressure: Not determined

Relative Density at 20 °C: 1.01 - 1.05 g / ml
PH in 1% solution: 3.0 - 7.0
Viscosity: Not applicable

9.2 Other information

N/A.



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10. STABILITY AND REACTIVITY

10.1 Reactivity

N/A.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

N/A.

10.4 Conditions to avoid

Sensitive to light and humidity.

10.5 Incompatible materials

Strong oxidizing agents, strong acids, strong bases.

10.6 Hazardous decomposition products

None known.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

ACUTE TOXICITY

Oral DL₅₀ >7.994 mg/kg. (rat)
Dermal DL₅₀ >8000 mg/kg. (rat)

DANGEROUS HEALTH EFFECTS

Eyes and Skin

Permethrin Non irritating (rabbit).
Tetramethrin Has slightly irritating effect on skin and eyes.

LONG AND SHORT TERM CHRONIC EFFECTS

Sensitisation

Permethrin Slightly sensitising (pigs)
Tetramethrin No sensitising

Carcinogenicity

Permethrin Not carcinogenic (rats and mice).
Tetramethrin No data available.

Mutagenicity

Permethrin Not mutagenic
Tetramethrin Not mutagenic

Reproductive toxicity

Permethrin No teratogenic effects.
Tetramethrin Not teratogénico

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Very toxic to aquatic organisms.

12.2 Persistence and degradability

The product is biodegradable.

12.3 Bioaccumulative potencial

N/A.

12.4 Mobility in soil

N/A.



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12.5 Results of PBT and vPvB assessment

N/A.

12.6 Other adverse effects

N/A.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product disposal

Observe clothing rules and protection measures. Moisten solid material carefully to prevent burning.

Use carbonated or soapy water to clean the floor and contaminated objects.

Do not dispose waste waters into drains or the environment. Cover the product with an absorbent material such as sand, earth or diatomaceous earth to prevent spreading.

Very polluted ground layers should be removed, until a clean layer arises. Use a suitable security container to prevent environmental contamination.

The product MUST NOT be disposed of into municipal sewer systems, drains or rivers.

The treatment and/or disposal must be carried out according to local legislation. The spilled product cannot be reused and must be disposed of. IT must be disposed of at an authorised residual waste collecting point.

Container disposal

Empty containers must be disposed of by an authorised dealer.

“Final holders of residues from industrial and commercial containers, must keep them in the conditions established in article 12 of the Spanish Containers and Residues from Containers Law 11/1997.”

14. TRANSPORT INFORMATION

Special considerations

Use unbreakable recipients, making sure that they are well secured and labelled according to the legislation.

Miscibility with water	Emulsion.
UN number	3082
Class	9
Packing Group	III
Danger ID	90

Classification for the transport by rail/road RID/ADR:

Denomination: Liquid substance potentially dangerous for the environment, (Tetramethrin 1%, Permethrin 15%, P.B.O 5%).

Additional information: insecticide

Limited quantities: LQ7

Marine pollutant.

Classification for transport by sea, code-IMDG:

Denomination: Liquid substance potentially dangerous for the environment, (Tetramethrin 1%, Permethrin 15%, P.B.O 5%).

Additional information: Insecticide

Classification for transport by air IACO/IATA:

Denomination: Liquid substance potentially dangerous for the environment, (Tetramethrin 1%, Permethrin 15%, P.B.O 5%).

Additional information: Low harmfulness insecticide

Not allowed for air transport.

14.1. UN number

See corresponding entries for the respective legislations in the table above.

14.2. UN proper shipping name

See corresponding entries for the respective legislations in the table above.

14.3. Transport hazard class(es)

See corresponding entries for the respective legislations in the table above.



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14.4. Packing group

See corresponding entries for the respective legislations in the table above.

14.5. Environmental hazards

See corresponding entries for the respective legislations in the table above.

14.6. Special precautions for user

See corresponding entries for the respective legislations in the table above.

15. REGULATORY INFORMATION

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

Applied regulations

This Material safety data sheet comply with Annex I – Requirements for the Material safety data sheets elaboration from Regulation (EC) number 453/2010.

15.2 Chemical Safety Assessment

Information on handling of the product can be found in sections 7 and 8 of the Safety Data Sheet.

16. OTHER INFORMATION

Recommended use

For strictly professional use in the environmental and food industries. Read the label carefully before using this product. In order to avoid risks to people and the environment follow the instructions of use

Additional Information

The information contained herein is based on the Safety Data Sheets of the manufacturers of the Raw Materials, whose knowledge and good work we refer to. It is our intention to describe the product only in relation to the health, safety and to the environment, therefore, shall not be construed as guaranteeing any specific property of the product. Consequently, it is up to the user under his sole responsibility to decide whether this information is appropriate and useful.

This updated revision of the Safety Data Sheet replaces and voids all previous ones.