



MATERIAL SAFETY DATA SHEET

ECOREX ACCION EW

1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY

Identification of the formulation

Product name: ECOREX ACCION EW
Type of biocide: Insecticide for flying and creeping insects.
Type of formulation: Concentrated water based emulsion.
Registration: registered in the Registro de Plaguicidas de la Subdirección General de la Salud Pública del Ministerio de Sanidad y Consumo (Spain) : 05-30-03866 and 05-30-03866 HA.

Use of the substance or preparation

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

Identification of the company

Company that places the product on the market: MYLVA S.A.
C/ Verdi 24
08012- BARCELONA
Telephone: +34 902 109 114
Fax: +34 93 415 63 44
E-Mail:mylva@mylva.es
Monday to Friday from 9.00-13.30 and 15.30-19.00
+34 93 760 14 71

Emergency telephone

2. DANGER IDENTIFICATION

This preparation is dangerous in accordance with RD 255/2003 and 1999/45/EC regulations and subsequent amendments.

Danger identification: Irritant, Dangerous for the Environment.

Possible health risks: Intoxication can cause dermatitis, eye, nose and throat irritation. Hypersensitivity reactions with bronchospasm. Nausea, vomits, vertigo, cephalalgia, peribuccal paraesthesia.

Environmental risks Very toxic to aquatic organisms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition	Permethrin	23.5%
	Isothiazolones mixture	0.2%
	Solvents and excipients	up to 100%

Chemical characteristics

Commercial name: Permethrin
Chemical class: Pyrethroid
Empirical formula: C₂₁H₂₀Cl₂O₃
Molecular weight: 391.29
CAS No.: 52645-53-1
EC No: 258-067-9

Chemical name: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-1.5% isothiazol-3-one (3:1)
Chemical class: Isotiazolones
Mixture CAS No.: 55965-84-9
Individual EC Nos: 247-500-7 (CIT), 220-239-6 (MIT)

Dangerous components

CAS N°	CHEMICAL NAME	SYMBOLS	R-PHRASES
52645-53-1	PERMETHRIN	Xn N	R20/22 R43 R50/53
55965-84-9	ISOTHIAZOLONES MIXTURE	T N	R23/24/25 R34 R43 R50/53

4. FIRST AID MEASURES

General 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.

First aid after the inhalation

Control breathing, if necessary via artificial respiration. If the patient is unconscious, lie him down on his side with his



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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.

First aid after contact with skin

Wash skin with plenty of water and soap, without rubbing.

First aid after contact with eyes

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

First aid in a case of ingestion

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.

Therapeutic measures

In case of ingestion, digestive decontamination, according to consciousness. Administer an aqueous solution of activated carbon and a saline cathartic of sodium sulphate. Symptomatic treatment.

5. FIRE- FIGHTING MEASURES

Combustibility No

Correct means of extinguishing fire

In case of small fire: Dry chemical powder, Carbon Dioxide.

In case of important fire: Pulverized water or alcohol resistant foam (do not apply jet directly).

Special risks during the fire extinction

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. CO, CO₂, NO_x, SO_x, PO_x.

Fire protection equipment

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Secure adequate ventilation. Wear a suitable respiratory protection equipment.

Measures to protect the environment

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

Cleaning measures

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

7. HANDLING AND STORAGE

HANDLING

Avoid contact with eyes and skin.

STORAGE

Special storage instructions

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

Suitable packing material (s)

Polyethylene bottles.

Maximum storage temperature 35 °C

Minimum storage temperature 5 °C

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE LIMITS VALUES

Maximum exposure limits for professionals: Not established.

EXPOSURE CONTROL

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.



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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

General information

Appearance:	Opaque liquid
Colour:	White
Smell:	Inappreciable
Information concerning health, safety and the environment	
Ignition point:	N.A.
Boiling point:	> 100°C
Solubility in water:	Dispersible
Explosive properties:	N.A.
Distillation range:	N.A.
Vapour pressure:	N.D.
Relative density at 20 °C :	1.00 – 1.10 g/ml.
pH 2% solution:	4.5 – 5.5
Viscosity(20 r.p.m. T-E, 20 °C):	>1 mPa.s

10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions.
Conditions to avoid	Sensitive to light and humidity.
Materials to avoid	Strong oxidizing agents, strong acids, strong bases.
Hazardous decomposition products	None known.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Oral	DL ₅₀ >4.500 mg/kg.	(rat)
Dermal	DL ₅₀ >5.700 mg/kg.	(rat)
Inhalation	CL ₅₀ >9.500 mg/m ³	(rat)

DANGEROUS HEALTH EFFECTS

Eyes and Skin

Permethrin	Non irritating (rabbit).
Isothiazolones mixture	Has no caustic effect on skin and eyes.

LONG AND SHORT TERM CHRONIC EFFECTS

Sensitisation

Permethrin	Slightly sensitising (pigs)
Isothiazolones mixture	Possible sensitisation by skin contact.

Carcinogenicity

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

Mutagenicity

Permethrin	Not mutagenic
Isothiazolones mixture	Not mutagenic (OECD 471/EPA 84-4 method)

Reproductive toxicity

Permethrin	No teratogenic effects.
Isothiazolones mixture	Not teratogenic (EPA 83-3 a method).

12. ECOLOGICAL INFORMATION

Ecotoxicity	Very toxic to aquatic organisms.
Mobility	The product is water miscible
Persistence and degradability:	The product is biodegradable.
Bio-Accumulation	The product does not cause bioaccumulation in aquatic organisms.



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13. DISPOSAL CONSIDERATIONS

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 Dispersible.

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, (Permethrin 23.5%, Isothiazolone mixture 0.2%).

Additional information: Low harmfulness insecticide

Limited quantities: LQ7

Marine pollutant.

Classification for transport by sea, code-IMDG:

Denomination: Liquid substance potentially dangerous for the environment, (Permethrin 23.5%, Isothiazolone mixture 0.2%).

Additional information: Low harmfulness insecticide

Classification for transport by air IACO/IATA:

Denomination: Liquid substance potentially dangerous for the environment, (Permethrin 23.5%, Isothiazolone mixture 0.2%).

Additional information: Low harmfulness insecticide

Not allowed for air transport.

15. REGULATORY INFORMATION

Classification: The product is provisionally labelled according to EU regulation:



Irritant



Dangerous for the Environment

Risk phrases

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases

S2 Keep out of the reach of children.



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S13	Keep away from food, drink and animal feeding stuffs.
S23	Do not breathe vapour.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28	After contact with skin, wash immediately with plenty of water.
S29	Do not empty into drains.
S36/37	Wear suitable protective clothing and gloves.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S60	This material and its container must be disposed of as hazardous waste.

General bibliography:

Directives 67/548/EEC, 89/686/EEC, 91/155/EEC, 91/689/EEC, 94/62/EC, 98/24/EC as amended, and (CE) n° 1907/2006 (REACH).
Real Decreto 1054/2002 "Evaluación para el registro, autorización y comercialización de Biocidas."

16. OTHER INFORMATION

Text of R-phrases quoted in section 3:

R20/22	Harmful by inhalation and if swallowed.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Recommended use

For strictly professional use in the environmental and food hygiene industries. Read the label carefully before using this product. Do not mix with any other chemical product. Secure proper ventilation before entering into the room. Follow instructions in order to prevent risks for health and the environment.

Food industry use

Do not apply Ecorex Accion EW near foodstuff and keep re-entry time of at least 12 hours before using treated rooms. Measures must be taken to prevent foodstuff, machines and tools handled in previously treated rooms from containing residues. Do not use in the presence of people.

Method of application: located spraying of water dilution of the product into skirting board /ground. Do not spray over or apply on surfaces where foodstuff is handled, prepared, consumed or served.

Environmental Use

Do not use in the presence of people and/or pets. Do not spray over foodstuff or cooking tools. Recommended re-entry time: 12 hours. Mode of application: Spraying or nebulization of water dilution of the product.

The information published here is based on the knowledge and good work of the safety data files of the Manufactures of raw Materials. Therefore, this cannot be interpreted as guarantee for any specific property of the product. As consequence, it is under the users exclusive responsibility to decide if the information provided is appropriate or useful.