



## SAFETY DATA SHEET

### SERPOL GEL

#### 1. IDENTIFICATION OF THE FORMULATION AND THE COMPANY

##### Identification of the formulation

Product name: SERPOL GEL  
Biocide class: Insecticide / fungicide for the treatment of wood.  
Type of formulation: Gel.  
Register: registered in the Registro de Plaguicidas de la Subdirección General de la Salud Pública del Ministerio de Sanidad y Política Social (Spain) No. 09-80-03621.

##### Use of the substance or preparation

Insecticide for use in the Environmental Industry for specialised personnel.

##### Identification of the company

Company that places the product on the market: MYLVA S.A.  
Via Augusta, 48  
08006- BARCELONE (SPAIN)  
Telephone: 902109114  
Fax: 934156344  
E-Mail: mylva@mylva.es

##### Emergency Telephone

Telephone: 937601471

#### 2. HAZARDS IDENTIFICATION

This preparation is classified as dangerous according to RD 363/1995 (Directive 67/548/EC) and the RD 255/2003 (Directive 1999/45/EC) No. 1907/2006 (REACH Regulations) and under and according to RD 1802/2008 and subsequent amendments.

**Danger identification:** Harmful, Dangerous for the Environment

**Possible health risks:** Intoxication can cause dermatitis, eye, nose and throat irritation. Hypersensitivity reactions with bronchospasm. Depression of the central nervous system, vertigo, severe headaches, parasthesia peribuccal, temperature, anorexia. Chemical pneumonia by inhalation.

##### Environmental risks

Very toxic for aquatic organisms, may cause long-term adverse effects on the aquatic environment.

#### 3. COMPOSITION / INFORMATION ON COMPONENTS

<b>Composition</b>	Permethrin	0.7%
	Propiconazole	1.2%
	Solvents and excipients	up to 100%
<b>Chemical characteristics</b>		
Commercial name:	Permethrin	
Chemical name:	3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropane m- fenoxibencil carboxylate	
Chemical class:	Pyrethroide	
Empirical formula:	$C_{21}H_{20}Cl_2O_3$	
Molecular weight:	391.39	
CAS N°:	52645-53-1	
EC N°:	258-067-9	
Commercial name:	Propiconazole	
Chemical name:	1-[[2-(2,4-dichlorophenyl)-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazoltriazole	
Chemical class:	triazole	
Empirical formula:	$C_{15}H_{17}Cl_2N_3O_2$	
Molecular weight:	342.2	
CAS N°:	60207-90-1	
EC N°:	262-104-4	



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#### Dangerous components

CAS N°	CHEMICAL NAME
52645-53-1	PERMETHRIN
60207-90-1	PROPICONAZOLE

#### SYMBOL

Xn	N
Xn	N

#### R PHRASES

R20/22	R50/53
R22	R43 R50/53

## 4. FIRST AID MEASURES

### First aid measures

Remove person from contaminated area. Remove stained or splashed clothing. Wash eyes with plenty of water for at least 15 minutes. Wash skin with plenty of water and soap without rubbing. Do not administer anything by mouth. In case of swallowing: do not provoke vomiting. Let the patient rest. Maintain body temperature. Check breathing. If necessary give artificial respiration. If the patient is unconscious, place them on their side with their head lower than the rest of their body and semi-flex their knees. 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

**Combustible** Yes

### Adequate extinction measures

Water spray (do not apply stream/jet directly), foam, chemical powder and CO<sub>2</sub>.

### Special risk during fire extinction

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

### Fire- fighting protection equipment

Use autonomous respiratory equipment to protect from smoke. Use 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 soil.

### 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. Preferably store between: 5°C and 45°C

### Suitable packing material (s)

Polyethylene container.



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#### 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 for organic fumes.

##### 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 – CHEMICAL PROPERTIES

##### General information

Aspect:	Gel
Colour:	White
Smell:	Negligible.

##### Important information regarding health, safety and the environment.

Ignition point:	> 77 °C
Boiling point:	>100°C
Solubility in water:	Dispersible
Auto-ignition:	Not determined
Distillation range:	Not determined
Vapour pressure:	Not determined
Density at 20 °C:	0.820 – 0.860 g/ml.
pH:	5.0 – 6.0
Viscosity (20 r.p.m. T-D, 20°C):	10000-15000 mPa.s.

#### 10. STABILITY AND REACTIVITY

##### Chemical stability

Stable under normal conditions.

##### Condition to avoid

None known.

##### Materials to be avoided.

Strong oxidizing agents, strong acids, and strong bases.

##### Dangerous decomposition products

None known.



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#### 11. TOXICOLOGICAL INFORMATION

##### ACUTE TOXICITY

<b>Oral</b>	LD <sub>50</sub> >4000 mg/kg.	(rats)
<b>Dermal</b>	LD <sub>50</sub> >4950 mg/kg.	(rats)
<b>Inhalation</b>	Not determined.	

##### DANGEROUS HEALTH EFFECTS

Eyes and skin	
Permethrin	Non-irritating on skin (rabbits).
	Non-irritating on eyes (rabbits).
Propiconazole	Slightly irritating (rabbits).

##### LONG AND SHORT-TERM CHRONIC EFFECTS

###### Sensitisation

Permethrin	Slightly sensitising (pigs)
Propiconazole	Non-sensitising according to maximization test on guinea pigs.

###### Carcinogenicity

Permethrin	Not carcinogenic (rats and mice).
Propiconazole	Not carcinogenic (rats).

###### Mutagenicity

Permethrin	Not mutagenic
Propiconazole	Not mutagenic (rats).

###### Reproductive toxicity

Permethrin	No teratogenic effects.
Propiconazole	No teratogenic effects in animal experiments.

#### 12. ECOLOGICAL INFORMATION

##### Ecotoxicity

Very toxic for aquatic organisms.

##### Mobility

No data.

##### Persistence and degradability

The product is biodegradable.

##### Bioaccumulation potential

No data.

#### 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 treatment and/or disposal must be carried out according to local legislation. The spilled product cannot be reused and must be disposed of. Dispose of it 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."



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#### 14. TRANSPORT INFORMATION

##### Special considerations

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

**Miscibility in water** Dispersible

**ONU N°** 3077

**Class** 9

**Packaging group** III

**Danger ID N°** 90

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

**Denomination:** solid material potentially dangerous for the environment, n.e.p (Permethrin 0.7%, Propiconazole 1.2%).

**Additional information:** Low harmful level insecticide.

**Limited quantities:** LQ27

##### Classification for maritime transport code - IMDG

**Denomination:** solid material potentially dangerous for the environment, n.e.p (Permethrin 0.7%, Propiconazole 1.2%).

**Additional information:** Low harmful level insecticide.

Marine pollutant.

##### Classification for air transport ICAO / IATA

**Denomination:** solid material potentially dangerous for the environment, n.e.p (Permethrin 0.7%, Propiconazole 1.2%).

**Additional information:** Low harmful level insecticide.

Air transport not allowed.

#### 15. REGULATORY INFORMATION

**Classification:** This product is provisionally labelled in accordance with the EU normative:



**Harmful.**



**Dangerous for the environment.**

##### Risk phrases

R43 May cause sensitization by skin contact.

R65 Harmful: may cause lung damage if swallowed.

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

##### Safety advice phrases

S2 Keep out of reach of children.

S13 Keep away from food, drink and animal feedstuffs.

S23 Do not breathe fumes.

S24 Avoid contact with skin.

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:

This safety data sheet has been developed according to ANNEX II-A Guide for the preparation of Safety Data Sheets of the Regulation (CE) No. 1907/2006.



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#### 16. OTHER INFORMATION

Text of R-phrases quoted in section 2:

R22	Harmful if swallowed.
R20/22	Harmful by inhalation and if swallowed.
R43	May cause sensitization by skin contact.
R65	Harmful: may cause lung damage if swallowed.
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. Do not use in the presence of people and/or pets. Secure proper ventilation during product application. Do not apply on foodstuff or kitchen tools. This product cannot be used on wood for the manufacture and use of food containers.

Use: Apply product on wood by thin or thick brush or injection, do not dilute or mix with other products.

Recommended safety time: the treated wood cannot be commercialised or used before the product has fixed. Treatment of wood, curative and preventive. Class 2 risk (wood with risk of accidental hydration, structural wood, etc.).

- UNE 56.402-EN 46: Determination of the preventative efficacy on recently hatched *Hyloterpes bajulus* larvae, together with ageing tests by evaporation according to EN73.
- ENV 1390: Determination of the curative action on *Hyloterpes bajulus* larvae.
- UNE 56.410-EN117: Determination of the efficacy threshold on termites of the *Reticulitermes* genus, together with ageing tests by evaporation according to EN73.
- UNE 56.411-EN118: Determination of the preventative efficacy on termites of the *Reticulitermes* genus, together with ageing tests by evaporation according to EN73.
- UNE 56.412-EN113: Determination of the efficacy threshold on xylophagous basidiomycete fungi, together with ageing tests by evaporation according to EN73.

#### Additional information

The information herein contained is based on the Safety Data Files of the manufacturers of Raw Materials, to whose knowledge and know-how we refer. It is our intention to only describe the product in relation to health, safety, and the environment, therefore, it must not be interpreted as a guarantee of any specific property of the product. As a consequence, it is up to the user, under his/her exclusive responsibility, to decide whether this information is appropriate or useful.