Chlorfenvinphos@2,4-Dichloro-alpha-(chloromethylene)benzyl alcohol diethyl phosphate@2,4-Dichloro-alpha-(chloromethylene)benzyldiethyl phosphate@2-Chloro-1-(2,4-dichlorophenyl)-ethenyl diethyl phosphate@2-Chloro-1-(2,4-dichlorophenyl)vinyldiethylphosphate@AI3-24969@Apachlor@BRN 2338385@Chlorfenvinfos@Diethyl 1-(2,4-dichlorophenyl)-2-chlorovinyl phosphate@Diethyl-1-(2,4-dichlorophenyl)-2-chlorovinyl phosphate@Diethyl-2-chloro-1-(2,4-dichlorophenyl)vinyl phosphate@,O-Diethyl O-(2-chloro-1-(2',4'-dichlorophenyl)vinyl) phosphate@Phosphoric acid, 2-chloro-1-(2,4-dichlorophenyl)ethenyl, diethyl ester@Vinylphate@Vinyphate@beta-2-Chloro-1-(2',4'-dichlorophenyl) vinyl diethylphosphate

IDENTIFICATION NUMBERS

- **CAS:** 470-90-6
- **EC/EINECS:** 207-432-0
- **International Chemical Safety Card (ICSC):** 1305

MORE INFORMATION

- **Molecular Formula:** C12H14Cl3O4P
- **Synonyms:** FOSFATO DE 2-CLORO-1-(2,4-DICLOROFENIL) VINILO Y DE DIETILO, CLORFENVINFOS (ISO), Clofenvinfoso

USES

biocide, insecticide, pesticide

⚠ **Black list — Substances particularly hazardous to the environment or health**

CLASSIFICATION AND LABELLING (Regulation 1272/2008)

Symbols



GHS06

Acute toxicity (oral, dermal, inhalation)



GHS09

Hazardous to the aquatic environment

Signal word: **Danger**

H Phrases

H300 : Fatal if swallowed

Acute Tox. (Cat. 2 *) : Acute toxicity

H311 : Toxic in contact with skin

Acute Tox. (Cat. 3 *) : Acute toxicity

H400 : Very toxic to aquatic life

Aquatic Acute (Cat. 1) : Hazardous to the aquatic environment

H410 : Very toxic to aquatic life with long lasting effects

Aquatic Chronic (Cat. 1) : Hazardous to the aquatic environment

Specific health risks

Endocrine disruptors

Substances with endocrine disrupting activity

DISRUPTOR LEVEL

UE2

Neurotoxic substances

Substances with neurotoxic effects

NEUROTOXIC EFFECT	LEVEL
COLINÉRGICO	2

SOURCE

18

Biological Exposure Indices (BEI)

Biological limit values (VLB) published by the Spanish National Institute of Safety and Health at Work (INSST). Reference values for assessing the risk of chemical agents by measuring them or their metabolites in biological matrices (blood, urine, exhaled air) of exposed workers.

BIOLOGICAL EXPOSURE INDICES

Biological indicator	BEI	Sampling time	Notes
Colinesterasa eritrocitaria	Reduccisn de la actividad al 70% del valor basal individual	Discrecional (7)	F, I, S

Specific environmental risks

Aquatic toxicity (Water Framework Directive)

Substances classified with acute aquatic toxicity under the CLP Regulation (H400 phrase, Aquatic Acute 1). They present an immediate hazard to aquatic organisms, and their use or discharge can cause rapid damage to aquatic ecosystems.

Atmospheric emissions

Substances subject to atmospheric emission limitations under the Industrial Emissions Directive (2010/75/EU) and its Spanish transposition. Includes pollutants regulated in industrial installation emission permits and best available technique reference documents (BAT/BREF).

Environmental regulations

LPCIC (EPER)

Priority substances and specific pollutants within the EU water policy framework, established by the Water Framework Directive (2000/60/EC) and the Priority Substances Directive (2008/105/EC and amendments). Substances posing significant risk to European surface waters and subject to Environmental Quality Standards (EQS).

EPER WATER	EPER AIR
EPER SOIL	
1	

EPER Soil

Substances from List 3 of Annex III of the IPPC Directive (integrated into the Industrial Emissions Directive 2010/75/EU). Substances present in waste generated by IPPC installations that must be controlled and minimised within the framework of best available techniques.

Restriction/prohibition regulations

Major accident hazards (Seveso)

Hazardous substances listed in Annex I of the Seveso III Directive (Directive 2012/18/EU), transposed in Spain by Royal Decree 840/2015. Their presence in industrial establishments in quantities equal to or above established thresholds triggers obligations to implement major accident risk control measures.