# carbofuran

### IDENTIFICATION NUMBERS

- **CAS:** 1563-66-2
- **EC/EINECS:** 216-353-0
- **International Chemical Safety Card (ICSC):** 0122

### MORE INFORMATION

- **Molecular Formula:** C12H15NO3
- **Synonyms:** CARBOFURANO, METILCARBAMATO DE 2,3-DIHIDRO-2,2-DIMETILBENZOFURAN-7-ILO, CARBOFURAN (ISO)

### USES

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

**H330** : Fatal if inhaled

Acute Tox. (Cat. 2 *) : 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/SNP | 2 |

**SOURCE**

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### According to IARC

Substances classified as carcinogens or mutagens Category 2 under the CLP Regulation (GHS), bearing H351 and/or H341 phrases. These are substances suspected of causing cancer or heritable genetic mutations in humans.

| IARC GROUP | IARC VOLUME |
|---|---|
| Grupo 3 | (VOL. 69; 1997) |

### Occupational Exposure Limits (OEL)

Daily exposure limit values (VLA-ED) published by the Spanish National Institute of Safety and Health at Work (INSST). They represent the average concentration of a chemical agent in the worker's breathing zone, measured or calculated in a time-weighted manner for an 8-hour daily working period. (https://www.insst.es/valores-limites-de-exposicion)

**OCCUPATIONAL EXPOSURE LIMITS**

| State / Form | TWA (ppm) | TWA (mg/m³) | STEL (ppm) | STEL (mg/m³) | Notes |
|---|---|---|---|---|---|
| — | — | 0.1 | — | — | — |

## 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 |
|---|---|
| | 1 |

### EPER Air

Substances from List 2 of Annex III of the IPPC Directive (integrated into the Industrial Emissions Directive 2010/75/EU). Pollutants that may affect surface and groundwater bodies and must be considered in the integrated environmental authorisation of industrial installations.

## 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.