Thiophanate-methyl (ISO); Dimethyl (1,2-phenylenedicarbamoyl)biscarbamate; Dimethyl 4,4′-(o-phenylene)bis(3-thiothioalophanate).

Name (English): Thiophanate-methyl (ISO); Dimethyl (1,2-phenylenedicarbamoyl)biscarbamate; Dimethyl 4,4′-(o-phenylene)bis(3-thiothioalophanate).

IDENTIFICATION NUMBERS

- **CAS:** 23564-05-8
- **EC/EINECS:** 245-740-7

MORE INFORMATION

- **Molecular Formula:** C12H14N4O4S2
- **Synonyms:** METILTIOFANATO, TIOFANATO-METIL (ISO)

USES

pesticide

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

CLASSIFICATION AND LABELLING (Regulation 1272/2008)

Symbols



GHS07

Acute toxicity (oral, dermal, inhalation



GHS08

Respiratory sensitisation



GHS09

Hazardous to the aquatic environment

Signal word: **Warning**

H Phrases

H341 : Suspected of causing genetic defects

Muta. (Cat. 2) : Germ cell mutagenicity

H332 : Harmful if inhaled

Acute Tox. (Cat. 4) : Acute toxicity

H317 : May cause an allergic skin reaction

Skin Sens. (Cat. 1) : Respiratory/skin sensitization

H351 : Suspected of causing cancer

Carc. (Cat. 2) : Carcinogenicity

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

Labelling

Concentration	Labelling
ETA=1,7 mg/l	Inhalation (dusts or mists)
M=10	
M=10'	

Specific health risks

Neurotoxic substances

Substances with neurotoxic effects

NEUROTOXIC EFFECT	LEVEL
COLINÉRGICO	2

SOURCE

18

Carcinogens and mutagens (Regulation 1272/2008)

Substances classified as carcinogenic or mutagenic under Regulation 1272/2008

Sensitisers

Substances with skin or respiratory sensitisation potential

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.

Substances under PACT evaluation

Substances under active regulatory monitoring through ECHA's PACT (Public Activities Coordination Tool). Allows tracking which regulatory authorities are examining a substance and what potential regulatory actions are being considered (restriction, SVHC identification, harmonised classification, etc.).

Authorized Pesticide

Active substances approved for use in plant protection products (agricultural pesticides) in the European Union under Regulation (EC) No 1107/2009. Includes herbicides, fungicides, insecticides, acaricides and other crop protection agents with current European-level approval.

SOURCE

Real Decreto 2163/1994