maneb (ISO), manganese ethylenebis(dithiocarbamate) (polymeric)@maneb (ISO), manganese ethylenebis(dithiocarbamate) (polymeric)@maneb

IDENTIFICATION NUMBERS

- **CAS:** 12427-38-2
- **EC/EINECS:** 235-654-8
- **International Chemical Safety Card (ICSC):** 0173

MORE INFORMATION

- **Molecular Formula:** C4H6MnN2S4
- **Synonyms:** MANOB

USES

fungicide, 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

H332 : Harmful if inhaled

Acute Tox. (Cat. 4 *) : Acute toxicity

H319 : Causes serious eye irritation

Eye Irrit. (Cat. 2) : Serious eye damage/eye irritation

H317 : May cause an allergic skin reaction

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

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

H361d : Suspected of damaging the unborn child.

Repr. (Cat. 2) : Reproductive toxicity

Labelling

Concentration	Labelling
C >= 2,5 %	N; R50-53
0,25 % <= C < 2,5 %	N; R51/53
0,025 % <= C < 0,25 %	R52/53
	M=10

Specific health risks

Carcinogens (other sources)

Substances classified as carcinogens or mutagens Category 3 under the Dangerous Preparations Directive criteria (pre-CLP).

Substances with limited evidence or indications of carcinogenicity or mutagenicity.

CATEGORY	SOURCE
CP	CP65

Endocrine disruptors

Substances with endocrine disrupting activity

DISRUPTOR LEVEL
UE1

Neurotoxic substances

Substances with neurotoxic effects

NEUROTOXIC EFFECT	LEVEL
COLINÉRGICO	2

SOURCE
18

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. 12, SUPL. 7; 1987)

Reproductive toxicants

Substances classified as toxic for reproduction under Regulation 1272/2008

Sensitisers

Substances with skin or respiratory sensitisation potential

Restriction/prohibition regulations

REACH sensitisers

Substances identified as respiratory or skin sensitisers under the REACH Regulation. Includes substances that, without necessarily having a CLP classification, have been assessed by ECHA as potentially allergenic in occupational exposure contexts.

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