1,2-epoxy-4-epoxyethylcyclohexane, 4-vinylcyclohexene diepoxide@7-oxa-3-oxiranylbicyclo[4.1.0]heptane

IDENTIFICATION NUMBERS

- **CAS:** 106-87-6
- **EC/EINECS:** 203-437-7
- **International Chemical Safety Card (ICSC):** 0820

MORE INFORMATION

- **Molecular Formula:** C8H12O2
- **Synonyms:** DIEPOXIDO DEL VINILCICLOHEXANO, DIEPOXIDO DE 4-VINILCICLOHEXENO, 1-EPOXIETIL-3,4-EPOXICICLOHEXANO

CLASSIFICATION AND LABELLING (Regulation 1272/2008)

Symbols



GHS06

Acute toxicity (oral, dermal, inhalation)



GHS08

Respiratory sensitisation

Signal word: Danger

H Phrases

H350 : May cause cancer

Carc. (Cat. 1B) : Carcinogenicity

H341 : Suspected of causing genetic defects

Muta. (Cat. 2) : Germ cell mutagenicity

H360F : May damage fertility.

Repr. (Cat. 1B) : Reproductive toxicity

H331 : Toxic if inhaled

Tox.ag.,3

H302 : Harmful if swallowed

Acute Tox. (Cat. 4) : Acute toxicity

Labelling

Concentration	Labelling
C >= 1 %	T; R23/24/25
0,1 % <= C < 1 %	Xn; R20/21/22
ATE = 0,5 mg/l	Inhalation (dusts or mists)
ATE = 1 847 mg/kg bw’	Oral

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

G-A3, N-2, CP

SOURCE

ACGIH, NTP, CP65

Endocrine disruptors

Substances with endocrine disrupting activity

DISRUPTOR LEVEL

NS

Neurotoxic substances

Substances with neurotoxic effects

LEVEL

2

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

Grupo 2B

IARC VOLUME

(VOL. 60; 1994)

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	0.58	—	—	vía dérmica

Prohibited for pregnant workers

Substances prohibited for pregnant workers

Carcinogens and mutagens (Regulation 1272/2008)

Substances classified as carcinogenic or mutagenic under Regulation 1272/2008

Reproductive toxicants

Substances classified as toxic for reproduction under Regulation 1272/2008

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.).