chlorine dioxide ... %@chlorine dioxide

IDENTIFICATION NUMBERS

- **CAS:** 10049-04-4
- **EC/EINECS:** 233-162-8
- **International Chemical Safety Card (ICSC):** 0127

MORE INFORMATION

- **Molecular Formula:** ClO2
- **Synonyms:** dióxido de cloro

USES

microbiocidal, water treatment

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

CLASSIFICATION AND LABELLING (Regulation 1272/2008)

Symbols



GHS05

Corrosive to metals



GHS06

Acute toxicity (oral, dermal, inhalation)



GHS09

Hazardous to the aquatic environment

Signal word: Danger

H Phrases

H314 : Causes severe skin burns and eye damage

Skin Corr. (Cat. 1B) : Skin corrosion/irritation

H400 : Very toxic to aquatic life

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

H301 : Toxic if swallowed

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

Nota B.

Notes

- R.1272-Note B

Labelling

Concentration	Labelling
C >= 10 %	C; R34
3 % <= C < 10 %	Xi; R37/38
0,3 % <= C < 10 %	Xi; R36
C >= 2,5 %	N; R50
C >= 5 %	Corr. cut., 1B; H314
1 % <= C < 5 %	Irrit. cut., 2; H315
3 % <= C < 5 %	Les. oc., 1; H318
0,3 % <= C < 3 %	Irrit. oc., 2; H319
C >= 3 %	STOT única, 3; H335
	M = 10

Specific health risks

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	0.28	0.3	0.84	—

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.

Banned biocides

Active substances whose approval for biocidal use has been denied or not renewed under Regulation (EU) No 528/2012 on biocidal products. They may not be placed on the market or used as active substances in biocidal products in the European Union.

SOURCE

Reglamento (CE) 1048/2005

EXEMPTIONS

2006/09/01