tricobalt bis[hexa(cyano-C)cobaltate(3-)]

IDENTIFICATION NUMBERS

- **CAS:** 14123-08-1
- **EC/EINECS:** 237-976-4

MORE INFORMATION

- **Molecular Formula:** C6CoN6.3/2Co
- **Synonyms:** COBALTATO(3-), hexakis(CIANO-C)-, COBALTO (2+) (2:3), (OC-6-11)-, COBALTATO(3-), hexakis(CIANO-kappaC)-, COBALTO (2+) (2:3), (OC-6-11)-, TRICOBALTO bis(HEXA(CIANO-C)COBALTATO(3-)), bis[HEXA(CIANO-C)COBALTATO (3-)] DE TRICOBALTO

⚠ **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

H310 : Fatal in contact with skin

Acute Tox. (Cat. 1) : Acute toxicity

H300 : Fatal if swallowed

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

H330 : Fatal if inhaled

Acute Tox. (Cat. 2 *) : Acute toxicity

Nota A.

Notes

- R.1272-Note A

Specific health risks

Ototoxic substances

Substances with ototoxic effects

NEUROTOXIC EFFECT	SOURCE
OTOTÓXICO	25

Biological Exposure Indices (BEI)

Biological limit values (VLB) published by the Spanish National Institute of Safety and Health at Work (INSST). Reference values for assessing the risk of chemical agents by measuring them or their metabolites in biological matrices (blood, urine, exhaled air) of exposed workers.

BIOLOGICAL EXPOSURE INDICES

Biological indicator	BEI	Sampling time	Notes
Cobalto en orina	15 µg/l	Final de la semana laboral (1)	F
Cobalto en sangre	1 µg/l	Final de la semana laboral (1)	F

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
—	—	0.02	—	—	VLB, Sen

Specific environmental risks

Atmospheric emissions

Substances subject to atmospheric emission limitations under the Industrial Emissions Directive (2010/75/EU) and its Spanish transposition. Includes pollutants regulated in industrial installation emission permits and best available technique reference documents (BAT/BREF).

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 SOIL
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.

EPER Soil

Substances from List 3 of Annex III of the IPPC Directive (integrated into the Industrial Emissions Directive 2010/75/EU). Substances present in waste generated by IPPC installations that must be controlled and minimised within the framework of best available techniques.