ozone

IDENTIFICATION NUMBERS

- **CAS:** 10028-15-6
- **EC/EINECS:** 233-069-2
- **International Chemical Safety Card (ICSC):** 0068

MORE INFORMATION

- **Molecular Formula:** O3

USES

decolorizing agent, bleaching agent, disinfectant, cleaner, deodorant, microbiocidal, water treatment

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

CLASSIFICATION AND LABELLING (Regulation 1272/2008)

Symbols



GHS03

Oxidising gases



GHS06

Acute toxicity (oral, dermal, inhalation)



GHS08

Respiratory sensitisation



GHS09

Hazardous to the aquatic environment

H Phrases

H270 : May cause or intensify fire; oxidizer

Ox. Gas,1

H351 : Suspected of causing cancer

Carc. (Cat. 2) : Carcinogenicity

H341 : Suspected of causing genetic defects

Muta. (Cat. 2) : Germ cell mutagenicity

H330 : Fatal if inhaled

Acute Tox. (Cat. 1) : Acute toxicity

H370 : Causes damage to organs

STOT SE (Cat. 1) : Specific target organ toxicity - single exposure

H372 : Causes damage to organs through prolonged or repeated exposure

STOT repe.,1

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

Acuático crónico, 1

Labelling

Concentration	Labelling
Inhalation	ATE=10 ppmV
STOT SE 1; H370	C≥0,002%
STOT SE 2; H371	0.0005%≤C<0.002%
STOT RE 1; H372	C≥0,05%
STOT RE 2; H373	0.01%≤C<0.05%
	M=100
	M=1

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
Trabajo pesado	0.05	0.1	—	—	—
Trabajo moderado	0.08	0.16	—	—	—
Trabajo ligero	0.1	0.2	—	—	—
Trabajo pesado, moderado o ligero (= 2 horas)	0.2	0.4	—	—	—

Carcinogens and mutagens (Regulation 1272/2008)

Substances classified as carcinogenic or mutagenic under Regulation 1272/2008

Specific environmental risks

Air quality

Atmospheric pollutants that negatively affect air quality. Includes compounds contributing to tropospheric ozone formation, suspended particulate matter (PM), acid rain or other ambient air pollution phenomena.

Restriction/prohibition regulations

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.).