# 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.).