# nitrogen dioxide

## IDENTIFICATION NUMBERS

- **CAS:** 10102-44-0
- **EC/EINECS:** 233-272-6
- **International Chemical Safety Card (ICSC):** 0930

## MORE INFORMATION

- **Molecular Formula:** NO2

## CLASSIFICATION AND LABELLING (Regulation 1272/2008)

### Symbols



**GHS03**

Oxidising gases



**GHS04**

Gases under pressure



**GHS05**

Corrosive to metals



**GHS06**

Acute toxicity (oral, dermal, inhalation)

**Signal word:** **Danger**

### H Phrases

**H270** : May cause or intensify fire; oxidizer

Ox. Gas (Cat. 1) : Oxidising gas

**H330** : Fatal if inhaled

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

**H314** : Causes severe skin burns and eye damage

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

### H???

Gas a pres.,

*Nota 5.*

### Notes

- R.1272-Note 5

### Labelling

| Concentration | Labelling |
|---|---|
| C >= 10 % | T+; R26 |
| 1 % <= C < 10 % | T; R23 |
| 0,1 % <= C < 1 % | Xn; R20 |
| | * |
| C >= 0,5 % | STOT única, 3; H335 |

## Specific health risks

### Endocrine disruptors

Substances with endocrine disrupting activity

**DISRUPTOR LEVEL**

NS

### 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 |
|---|---|---|---|---|---|
| — | 3 | 5.7 | 5 | 9.6 | — |

## 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.

## 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**

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### 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.