sulphur dioxide

IDENTIFICATION NUMBERS

- **CAS:** 7446-09-5
- **EC/EINECS:** 231-195-2
- **International Chemical Safety Card (ICSC):** 0074

MORE INFORMATION

- **Molecular Formula:** O2S
- **Synonyms:** bisulfito, anhidrido sulfuroso

USES

preservative, bleaching agent, additive, molding sand, dehydrating

CLASSIFICATION AND LABELLING (Regulation 1272/2008)

Symbols



GHS04

Gases under pressure



GHS05

Corrosive to metals



GHS06

Acute toxicity (oral, dermal, inhalation)

Signal word: Danger

H Phrases

H370 : Causes damage to organs

Acute Tox. (Cat. 3) : Acute toxicity

H335 : May cause respiratory irritation

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

H314 : Causes severe skin burns and eye damage

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

H331 : Toxic if inhaled

Press. Gas : Gases under pressure

Nota U.Nota 5.

Notes

- R.1272-Note U

Labelling

Concentration	Labelling
C >= 20 %	T; R23
5 % <= C < 20 %	Xn; R20
Inhalation	ATE= 1000 ppmV (gases)

Specific health risks

According to IARC

Substances classified as carcinogens or mutagens Category 2 under the CLP Regulation (GHS), bearing H351 and/or H341 phrases. These are substances suspected of causing cancer or heritable genetic mutations in humans.

IARC GROUP

Grupo 3

IARC VOLUME

(VOL. 54; 1992)

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
—	1	2,64	2	5,28	s, véase Apartado 9

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.

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

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	EXEMPTIONS
Reglamento (CE) 1849/2006	2008/01/03

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.).