

# SULPHUR DIOXIDE

## CHARACTERISTICS

**Sulphur dioxide** plays an essential role in the making and preservation of wine. Correct use of **SO<sub>2</sub>** decreases oxidation, improves colour and aroma and lowers volatile acidity. **SO<sub>2</sub>** has the following properties:

- **Antioxidant:** reductive effect. Captures oxygen and prevents oxidation.
- **Antioxidase:** destroys oxidases and prevents casse.
- **Antimicrobial:** inhibits the action of yeasts and lactic and acetic bacteria.

It is also known as sulphur oxide (IV).

## APPLICATIONS

In must or wine.

## COMPOSITION

Sulphur dioxide (E-220) in liquefied gas form.

## ORGANOLEPTIC QUALITIES

In some cases, it produces an improvement in taste as it reacts with the acetaldehyde in the wine and removes the latter's distinctive aroma.

If applied in high doses, it may modify the wine's taste and aroma.

## DOSAGE

Standard-quality vintages	3 - 8 g/hl
Sulphited or sulphured musts	150 - 200 g/hl

*Total sulphur dioxide content may not exceed 150 mg/l for red wines or 200 mg/l for white and rosé wines. If the amount of residual sugar (expressed as glucose plus fructose) equals or exceeds 5 g/l, the permitted values are 200 mg/l for red wines and 250 mg/l for white and rosé wines.*

## INSTRUCTIONS FOR USE

This product may be added directly to the must or wine, using the appropriate equipment.

Users are recommended to make up 5% solutions in water beforehand, as these are easier to apply than gas. When preparing these solutions, the gas should be released into the water at a moderate speed. The percentage of **SO<sub>2</sub>** in the solution can be calculated easily using a hydrometer and a thermometer.

## Precautions for use:

Sulphur dioxide is a toxic gas and all due care should be taken when handling it. Avoid contact with eyes and mucus membranes. This product should only be used by trained staff.

## PHYSICO-CHEMICAL PROPERTIES

Concentration [%]	> 99.95
Moisture [%]	< 0.05
Fixed residue [%]	< 0.01
SO <sub>3</sub> [%]	< 0.1
Se [mg/kg]	< 10
As [mg/kg]	< 3
Pb [mg/kg]	< 2
Hg [mg/kg]	< 1
Other gases usually absent in air	Absent
Heavy metals expressed as Pb [mg/kg]	< 10

## PHYSICAL APPEARANCE

Colourless liquefied gas.

## PACKAGING

30, 50, 70, 100 and 1.000 kg containers.

## STORAGE

Store in the original packaging in a cool, dry place. Do not expose to direct sunlight.

REGISTRATION: R.G.S.A: 31.00391/CR

*This product complies with the International Oenological Codex and EC Regulation No 606/2009.*