

# SULFOSSOL

Solution of ammonium bisulphite =  $\text{NH}_4\text{HSO}_3$

**FOR SULPHITING MUSTS AND ACTIVATING FERMENTATIONS**  
**200, 150 g OF SO<sub>2</sub> PER LITRE OF SOLUTION**

## CHARACTERISTICS

- ◆ The originality of **SULFOSSOL** is to simultaneously supply the must or the harvest with  $\text{SO}_2$  and ammoniacal nitrogen that are necessary for the correct progression of the fermentation.
- ◆ **SULFOSSOL** supplies yeasts with a part of the nitrogen required for their development and multiplication :
  - Comparative fermentation tests done with and without ammoniacal nitrogen have shown that the number of viable yeast cells increase by 30% to 40% in the presence of ammonium ions and that the division period is extended for 2 days.
- ◆ **SULFOSSOL** supplies ammoniacal nitrogen before the onset of fermentation, when the medium contains dissolved oxygen, favouring the assimilation of  $\text{NH}_4^+$  ions.
- ◆ **SULFOSSOL** supplies the  $\text{SO}_2$  necessary for wine making:
  - Protection from enzymatic oxidations (tyrosinase, laccase, etc.)
  - Inhibition of bacteria and apiculate yeast,
  - Dissolution of phenolic compounds in red wine making.
- ◆ **SULFOSSOL** brings as much  $\text{NH}_4$  as diammonic phosphate :
  - 1 g of  $\text{SO}_2$  in Sulfossil brings 280 g of  $\text{NH}_4$  i.e. 220 mg of nitrogen.
  - 1 g of diammonic phosphate brings 270 mg of  $\text{NH}_4$  i.e. 210 mg of nitrogen.

## LEGISLATION

- ◆ The use of ammonium bisulphite is authorized by Community Ruling No. 1493/99 at the dose of 0.2 g/l i.e. 32 mL/hL of **SULFOSSOL** at 48.7%  $\text{NH}_4\text{HSO}_3$ , is equivalent to the maximal sulphiting authorized of 12.8 g  $\text{SO}_2$ /hL.

060/03



**STATION**  
**ŒNOTECHNIQUE**  
 de **CHAMPAGNE**

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Produits  
 œnologiques

1/2

## DOSAGES

Dose SO <sub>2</sub>	Sulfossil 200	Sulfossil 150
1 g/hL	0,50 cL	0,66 cL
5 g/hL	2,50 cL	3,33 cL
10 g/hL	5,00 cL	6,66 cL

- ◆ **SULFOSSOL** should be incorporated as early as possible and before the onset of fermentation.

## COMPOSITION OF SULFOSSOL

- ◆ Formula : NH<sub>4</sub>HSO<sub>3</sub>
  - Molecular weight : 99.11
  - Transparent, lemon yellow liquid with an odour of SO<sub>2</sub>
- ◆ Chemical analysis of a solution at 600 g/L of SO<sub>2</sub> :
  - % SO<sub>2</sub> : : 45 ± 1 (weight)
  - % NH<sub>4</sub>HSO<sub>3</sub> : : 70 ± 2 (weight)
  - Density : : 1.4
  - Iron % : : less than 0.001

## PACKAGING

	SULFOSSOL 150	SULFOSSOL 200
1 L	X	X
5 L	X	X
10 L	X	X

## STORAGE

- ◆ Store in full original container, away from light, in a dry odorless environment.
- ◆ Do not freeze.
- ◆ Opened package : use quickly.

## WARNING

- ◆ **SULFOSSOL** is classified **Xi – Irritant**
  - R31** : Gives off toxic gas on contact with acid.
  - R36/37** : Irritant for eyes and lungs.
  - S26** : In the case of contact with the eyes wash immediately and abundantly with water and consult a specialist.