

SULFOSSOL

Solution of ammonium bisulphite = NH_4HSO_3

FOR SULPHITING MUSTS AND ACTIVATING FERMENTATIONS
600, 400, 200, 150, 100, 50 g OF SO₂ PER LITRE OF SOLUTION

CHARACTERISTICS

- ◆ The originality of **SULFOSSOL** is to simultaneously supply the must or the harvest with 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 NH_4^+ ions.
- ◆ **SULFOSSOL** supplies the 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 NH_4 as diammonic phosphate :
 - 1 g of SO_2 in Sulfossil brings 280 g of NH_4 i.e. 220 mg of nitrogen.
 - 1 g of diammonic phosphate brings 270 mg of 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% NH_4HSO_3 , is equivalent to the maximal sulphiting authorized of 12.8 g SO_2 /hL.

APLLICATION RATES

SO ₂ dose	Sulfossil 600	Sulfossil 400	Sulfossil 200	Sulfossil 100	Sulfossil 50
1 g/hL	1,6 mL	2,5 mL	5 mL	10 mL	20 mL
5 g/hL	8,3 mL	12,5 mL	25 mL	50 mL	100 mL
10 g/hL	16,6 mL	25,0 mL	50 mL	100 mL	200 mL

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

COMPOSITION OF SULFOSSOL

- ◆ Formula : NH₄HSO₃
 - Molecular weight : 99.11
 - Transparent, lemon yellow liquid with an odour of SO₂
- ◆ Chemical analysis of a solution at 600 g/L of SO₂ :
 - % SO₂ : 45 ± 1 (weight)
 - % NH₄HSO₃ : 70 ± 2 (weight)
 - Density : 1.4
 - Iron % : less than 0.001

PACKAGING

	SULFOSSOL 50	SULFOSSOL 100	SULFOSSOL 150	SULFOSSOL 200	SULFOSSOL 400	SULFOSSOL 600
1 L						
5 L	X	X			X	
10 L	X	X		X		
20 L		X		X	X	X
1000 L		X	X	X	X	X

STORAGE

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

SAFETY INSTRUCTIONS

- ◆ **SULFOSSOL: NH₄HSO₃ / N°CAS : 10192-30-0 / WARNING**

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

P305+351+338 : IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 : Call a POISON CENTER or doctor/physician if you feel unwell.

P304+340 : IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

EUH031 : Contact with acids liberates toxic gas.