SULPHITING : WHAT SOLUTION ?

COMMERCIAL NAME	SO_2 gas	BAKTOL		SULFOSSOL 400	SULFOSSOL 200
COMMON NAME		Potassium bisulphite solution	Sulphurous solution 5 %	Ammonium bisulphite solution	Ammonium bisulphite solution
Chemical formula	SO_2	$HSO_3 K + H_2O$	$SO_2 + H_2O$	$HSO_3 NH_4 + H_2O$	$HSO_3 NH_4 + H_2O$
SO_2 concentration	Pure SO_2	200 g/L	50 g/L	400 g/L	200 g/L
Detitration : - by crystallization **- by volatilisation**	None Total in atmosphere	High at low temperature Very high from 20° C (68° F)	None Very high	None Not important	None Very low
Elements provided other than SO_2	None	Potassium provided : 10 mg/L SO_2 (1 g/hL) → 6 mg/L potassium	Water	10 mg/L SO_2 (1 g/hL) → 2,8 mg/L NH_4	10 mg/L SO_2 (1 g/hL) → 2,8 mg/L NH_4
SO_2 odours	Not to be inhaled	High at 20° C (68° F)	Very high - Not to be inhaled	Not important	Not important
PRICE	SO_2 : low price Returnable bottles		The low concentration induces an important impact on the transport price	Identical to SO_2 gas	Identical to potassium bisulphite
CHOICE	All uses	→ WINES MUSTS	All uses All process stages	→ HARVESTS	→ HARVESTS
DISADVANTAGES	Dangerous, polluting Atmosphere losses Returnable bottles Measure system necessity	- Atmosphere losses - Crystallization risks	Very high losses → Important pollution	Very low losses	Very low losses

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