



MATERIAL SAFETY DATA SHEET

According to the European Directive 2001/ 58/ EC

Product : **EFFERBAKTOL 400 granules**

Version n°01 of 14/09/05

1 – Product and company identification

Product name : **Efferbaktol 400 granules**

Product use: chemical product used in oenology

Supplier : **SOFRALAB – MARTIN VIALATTE ŒNOLOGIE – STATION ŒNOTECHNIQUE DE CHAMPAGNE**
79 AV. A.A. Thévenet - BP 1031 - 51319 MAGENTA – FRANCE

Phone : 00 33 (0)3 26 51 56 45 – Fax number : 00 33 (0)3 26 51 87 60

Emergency number : ORFILA 00 33 (0)1 45 42 59 59 FRANCE

2 – Chemical composition/ Information on components

- Potassium metabisulphite
K₂S₂O₅

CAS N°: 16731-55-8
EC N°: 240 – 795 – 3

Danger symbol: Xi irritant
Risk phrases: R31 - R37 - R41

- Potassium bicarbonate

CAS N°: 298-14-6
EINECS N° : 206 – 059 – 0

3 – Hazards identification

Risks of eye lesions.
Irritating to respiratory system
Contact with acids liberates toxic gas

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4 – First aid measures

Remove contaminated clothing

In case of inhalation: supply fresh air and seek medical assistance

In case of skin contact: thoroughly wash with water and soap

In case of eye contact: flush eyes with copious amounts of water for 15 minutes while separating the eyelids. Consult an ophthalmologist.

In case of ingestion: drink plenty of water

In case of ingestion or dizziness caused by dust inhalation: supply fresh air and seek medical assistance.

Information for physicians

Hazards: in case of ingestion, risk of formation of sulphur dioxide by reaction with gastric acids.

5 – Fire fighting measures

Recommended extinguishing agent: water

Specific risks: sulphur dioxide.
The named substances and groups of substances can be liberated by a nearby fire.

Specific protective equipment: wear self-contained breathing apparatus.

Other information: contaminated water used to extinguish fire has to be disposed of in accordance with official local regulations.

6 –Accidental release measures

Individual prevention precautions: Avoid formation of dust. Ensure suitable ventilation.

Measures for environmental protection: Do not release into sewer systems, surface and underground waters. Do not release into the soil/subsoil.

Protocol for cleaning/collecting: For large quantities. Use mechanical equipment for collection. The collected product should be disposed of in accordance with applicable regulations.
Residues: Use mechanical equipment for collection. The collected product should be disposed of in accordance with applicable regulations.

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7 – Handling and storage

Handling: avoid dust formation. Use only in well ventilated areas.

Protection against fire and explosion: the substance/product is not combustible.

Storage: Store away from acids and acid forming substances. Separate from oxidizing agents. Do not store together with: sodium nitrate, sodium nitrite and sodium-sulfur.
Other storage information: store in a cool, dry and well ventilated area.

8 – Exposure control/ Personal protection

Admissible workplace concentrations:

7446-09-5: sulfur dioxide
VME 5mg/m³; 2 ppm (VLEP-INRS (FR))
VLE (FR) 10 mg/m³; 5 ppm (VLEP-INRS (FR))

Personal protective equipment:



Respiratory protection:

Wear a suitable respirator in case of low concentrations or short exposure: particle filter mask P1 or FFP1 (low retention capacity for solid particles, for example EN 143, 149).



Hand protection:

Wear suitable protective gloves resistant to chemical agents (EN 374), also in case of prolonged direct contact (recommendation: protection index of 6, corresponding to a permeation breakthrough time >480 minutes according to EN 374): for example, nitrile (0.4 mm), chloroprene (0.5), PVC (0.7 mm), among others.

Additional information: data based on internal controls, bibliographical data and information provided by glove manufacturers, or deduced from analogous product descriptions. Please note that in practice, the daily usage duration of a chemical resistant glove can be noticeably shorter than the permeation duration according to EN 374, because of the effect of numerous factors (for example, the temperature).

Because of the large diversity of products, it is recommended to follow manufacturer's instructions.



Eye protection:

Wear tight-fitting safety goggles (EN 166)

General protection and hygiene measures:

Wash hands and/or face before breaks and after work.

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9 – Physical and chemical properties

Appearance:	white granules
Odour:	pungent SO ₂ odour
Decomposition temperature:	150° C
Water solubility at 20°C:	335 g/ l
pH (20% solution):	6.3±0.5
Specific gravity (water = 1000):	1100 to 1200 kg/m ³

10 –Stability and reactivity

Thermal decomposition:	>150 °C
Substances to avoid:	acids, oxidizing agents, nitrites, nitrates
Hazardous reactions:	decomposition at high temperatures with production of sulfur dioxide (SO ₂). Strong reaction in contact with acids and oxidizing agents with release of SO ₂

11 – Toxicological information

LD50 oral (rat):	2300 mg/kg
Primary skin irritation:	non-irritant
Primary mucous membrane irritation:	irritant
Frequent or prolonged contact may cause sensitization of skin and eyes.	

12 – Ecological information

Do not release product into water without previous treatment.

At high concentrations, this inorganic product can increase oxygen consumption in biological wastewater treatment plants or in waters.

Proper release into suitable biological wastewater treatment plants does not disturb the biological activity of the activated sludge.

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13 – Disposal considerations

Dispose of product through a chemical waste centre.

Contaminated packages:

Empty packages thoroughly. They can be reused after appropriate cleaning.

14 – Transport information

Product is non-hazardous according to transport regulations

15 – Regulatory information

European Union regulation (Labelling)/ National prescriptions.

EC Number: 240-795-3

Council Directive 67/548/CEE 27th of June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances:

Hazard symbol(s): Xi irritant



Risk phrase(s):

- R 31: contact with acid liberates toxic gas.
- R 37: irritating to respiratory system.
- R 41: risk of serious damage to the eyes.

Safety phrase(s):

- S 26: in case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S 39: wear suitable eye/face protection.

16 –Other information

The vertical lines in the left margin indicate the modifications made to the precedent version.

“ This sheet completes the technical utilisation manual but does not replace it. The information contained within is based on the level of our knowledge relative to the product at the date indicated. It is given in good faith. The attention of the users is above all drawn to the eventual risks taken for the products usage in situations other than that for which it was conceived.

In no situation should the user disregard the precautions outlined for the products use. The user assumes the sole responsibility for following the precautions listed in regards to their utilisation of the product ”.