



MATERIAL SAFETY DATA SHEET

According to the European Directive 1907/2006/ EC

Product: **BAKTOL P**

Version of 13/10/2010

1 – Identification of the substance/mixture and of the company/undertaking

Product name: BAKTOL P

Product use: product used in enology

Supplier: SOFRALAB


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2 – Hazards identification

- This product is not classified as flammable. Refer to the recommendations regarding the other products present on the site
- **Substance classification in accordance with the directive 67/548/EEC:**
Irritant / R37 – R41 – R31 (R phrase text: consult paragraph 16)
- **Labeling:**
 Irritant
- R37: Irritating to respiratory system.
R41: Risk of serious damage to eyes.
R31: Contact with acids liberates toxic gas.
- S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39: Wear eye/face protection.

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5 - Firefighting measures

Recommended fire-fighting agents:	Dry powder, carbon dioxide, water spray, foam. Cool the containers exposed to the fire with water spray.
Protective equipment:	Wear a complete fire suit and respiratory protection (insulating self-contained breathing apparatus).
Combustion products:	Do not breathe smoke.
Additional information:	Prevent fire extinguishing water from contaminating surface or ground waters. Do not spray water directly on container to prevent product spills.

6 - Accidental release measures

Individual precautions:	Consult protection measures cited in paragraphs 7 and 8. Avoid contact with the product. Avoid dust formation. If spill is large, evacuate the personnel and only allow intervention by trained personnel equipped with safety apparatus.
Measures for environmental protection:	If the product has entered a waterway and/or drainage system or has contaminated the ground and/or the vegetation, notify the competent authorities. Contain spills with earth or sand.
Cleaning measures:	Collect the dry product using mechanical equipment and rinse the contaminated surface with plenty of water. Keep in suitable and closed containers for recycling or disposal of collected spill according to applicable regulation (See paragraph 13).

7 - Handling and storage

These recommendations are applicable to the working area where the product is handled.

Handling:	Avoid dust formation. Avoid inhalation and skin or eye contact. Do not drink or eat in working area. See paragraph 8. Provide ventilation and adequate equipment disposal.
Fire prevention:	Store away from ignition sources. Prevent access to unauthorized personnel.
Storage:	Store tightly closed container in a cool, dry and well ventilated area.

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8 - Exposure controls/personal protection

Use individual protective equipment in accordance with Directive 89/686/EEC



Compulsory protective equipment

Select personal protective equipment according to the concentration and quantity of hazardous substances and workplace. Consult supplier with regards to the chemical resistance of protective equipment.



Respiratory protection

Wear a dust mask type P1 in poorly ventilated area.



Eye protection

Wear safety goggles (EN 166) when dust concentration in the atmosphere is excessive.



Hand protection

	Full contact	Splash contact
Type of glove	Nitrile rubber	Nitrile rubber
Layer thickness	0.11mm	0.11mm
Breakthrough time	> 480min	> 480min

Do not use leather gloves.

Hygiene measures: Immediately remove any contaminated clothing. Preventive protection of skin. Wash hands and face after work.

Maintain local and work areas perfectly clean, aerate and clean frequently.

Exposure limits: TLV TWA: 2 ppm (SO₂)

9 - Physical and chemical properties

General information:

- Appearance: Powder
- Colour: White
- Odour: Pungent, SO₂ odour
- Molecular mass: 222.3 g/mol

Important information regarding health, safety and environment:

- Partition coefficient: NA
- pH (at 50 g/l H₂O): 3.5 – 4.5 (5% (m))
- Density (20°C): 1.20 kg/L H₂O

Additional information:

- Water solubility (at 20°C): 450 g/L
- Melting / boiling point: >150°C
- Auto-ignition temperature: NA
- Thermal decomposition: NA
- Apparent density: 1.1 to 1.3 g/cm³
- Vapor pressure (20°C): NA
- Flash point: NA

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10 - Stability and reactivity

The preparation is stable under the handling and storage conditions recommended in paragraph 7 of the MSDS.

- **Conditions to avoid:** Intense heat (>150°C) / Avoid humidity.
- **Substances to avoid:** Acids and oxidizing agents, nitrates, nitrites, sulphur.
- **Hazardous decomposition products:** Toxic gases (sulfur dioxide).

11 - Toxicological information

Acute toxicity:

LD50 (oral, rat) 2300 mg/kg
LC50 (inhalation, rat) >5.5 mg/L (4h)
Slightly toxic after single ingestion
Practically non-toxic after single inhalation

Additional information:

Serious eye damage/eye irritation (rabbit) : Irreversible effects

Other dangerous properties can not be excluded. The product should be handled with the care usual when dealing with a chemical product.

12 - Ecological information

Use the product sensibly. Avoid release to the environment.

Ecotoxic effects:

- Fish (goldfish) LC50 460-1000 mg/L (96h)
- Planktonic crustaceans (Daphnia magna) LC50 104 mg/L (48h)
- Microorganisms (Pseudomonas sp) CE10 >32 mg/L (17h)
- Algae (Scenedesmus subspicatus) CL50 56 mg/L (72h)

Chemical Oxygen Demand (COD) : 140 mg/g

13 – Disposal considerations

Product: Chemical products should be disposed of or recycled in accordance with national regulations.

Packaging: Packaging should be disposed of in accordance with the regulations applicable in each country or should be disposed of through a recycling packaging program.

14 - Transport information

Exempt from transport classification and labelling.

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15 - Regulatory information

Classification in accordance with: Directive 67/548/EEC (Dangerous substances) and its versions. Regulation (EC) N°1272/2008 and its modifications (453/2010 Annex I) were also taken into consideration.

16 - Other information

The information presented in this material safety data sheet is based on the data provided by our suppliers.

The information contained in this data sheet is based on our knowledge at the date shown above. It exclusively concerns the product in question and does not guarantee a specific quality. The user must make sure of the conformity and completeness of information with regards to the specific use of the product.

This data sheet cancels and replaces any previous version.

R phrase text cited in paragraph 2 and 3: R37: Irritating to respiratory system.
R41: Risk of serious damage to eyes.
R31: Contact with acids liberates toxic gas.

Classification in accordance with the regulation (EC) No 1272/2008 :

Serious eye damage/eye irritation : Hazard category 1 / H318

Specific target organ toxicity, single exposure : Hazard category 3 / H335



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- Danger
- H318 : Causes serious eye damage.
- H335 : May cause respiratory irritation.
- EUH031 : Contact with acids liberates toxic gas.

- P280 : Wear protective gloves/protective clothing/eye protection/face protection.
- P271 : Use only outdoors or in a well-ventilated area.
- P261 : Avoid breathing dust / fume / gas / mist / vapours / spray.
- 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+P340 : IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing.