



Material Safety Data Sheet

According to 91/155 EC

Printing date 08.10.1999

Reviewed on 08.10.1999

• 1 Identification of the substance/preparation and of the

company/undertaking

- **Product details**
- **Molecular formula:** C₂₉ H₂₄ N₆
- **Trade name:** Sudan black B
- **Article number:** CH1683

- **Manufacturer/Supplier:**

ANTIBIOTICOS S.p.A Strada Rivoltana Km 6/7 I-20090 Rodano Tel.:
0039 02 95231

- **Further information obtainable from:** E.S. & Q. A.

• * 2 Composition/information on ingredients

- **Chemical characterization:**

CAS No. Description

(CAS 4197-25-5) 2,3-dihydro-2,2-dimethyl-6-[[4-(phenylazo)]-1-naphthylazo]-1H-pyrimidine

- **Identification number(s)**
- **EINECS Number:** 2240871

• 3 Hazards identification

- **Hazard description:** Xn Harmful
- **Information concerning to particular hazards to man and environment:**

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

• **4 First-aid measures**

• **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

• **After skin contact:** Generally the product does not irritate the skin.

• **After eye contact:**

Rinse opened eye for several minutes under running water.

• **After swallowing:** Call for a doctor immediately.

• **5 Fire-fighting measures**

• **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

• **Special hazards caused by the substance, its products of combustion or**

resulting gases:

In lack of oxygen: hydrogen cyanide (HCN)

• **Protective equipment:**

In closed rooms wear a self contained breathing apparatus.

Do not inhale gases in case of fire or combustion.

• **6 Accidental release measures**

• **Person-related safety precautions:**

Avoid formation of dust.

Use respiratory protective device against the effects of fumes/dust/aerosol.

• **Measures for environmental protection:**

Do not allow to enter sewers/ surface or ground water.

• **Measures for cleaning/collecting:**

Dispose contaminated material as waste according to item 13.

Pick up mechanically.

Ensure adequate ventilation.
For fine dusts use a vacuum cleaner.

• **7 Handling and storage**

• **Handling:**

• **Information for safe handling:**

Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Provide suction extractors if dust is formed.

• **Information about fire - and explosion protection:**

No special measures required.

• **Storage:**

• **Requirements to be met by storerooms and receptacles:**

No special requirements.

• **Information about storage in one common storage facility:** Not required.

• **Further information about storage conditions:**

Keep receptacle tightly sealed.

• **8 Exposure controls/personal protection**

• **Additional information about design of technical facilities:**

No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

TLV not established.

• **Additional information:**

The lists valid during the making were used as basis.

• **Personal protective equipment:** -

• **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

• **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Filter P2, in case of dust-producing handlings.

- **Protection of hands:** Protective gloves
- **Eye protection:** Not required.

• * **9 Physical and chemical properties**

- **Molecular weight** 456.55 g

- **Form:** Powder

- **Colour:** Black

- **Odour:** Odourless

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Value/Range Unit Method

- **Change in condition**

- **Melting point/Melting range:** 120-124 ° C

- **Boiling point/Boiling range:** Undetermined.

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Product is not flammable.

- **Danger of explosion:**

Product does not present an explosion hazard.

- **Density:** at 20 ° C 0.25 g/cm³

- **Solubility in / Miscibility with**

- **water:** Insoluble.

- **organic solvents:** Soluble in alcohols.

• **10 Stability and reactivity**

- **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

- **Dangerous reactions**

Can react violently with oxygen rich (oxidizing) material. Danger of Explosion.

- **Dangerous decomposition products:**

No dangerous decomposition products known.

• **11 Toxicological information**

• **Acute toxicity:**

LD/LC50 values relevant for classification:

2,3-dihydro-2,2-dimethyl-6-[[4-(phenylazo)]-1-naphthylazo]-1H-pyrimidine

Oral: LD50: >15000 mg/kg (rat)

• **Primary irritant effect:**

• **on the skin:** No irritant effect.

• **on the eye:** No relevant irritating effects.

• **Sensitization:** No sensitizing effects known.

• **12 Ecological information**

• **Information about elimination (persistence and degradability):**

• **Other information:**

The product is hardly biodegradable.

Possibility of photochemical degradation

• **Ecotoxicological effects:**

• **Remark:** No available data.

• **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment):
hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

• **13 Disposal considerations**

• **Product:**

• **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Reutilise if possible or contact a waste processors for recycling or safe disposal.

• **Uncleaned packaging:**

- **Recommendation:**

Disposal must be made according to official regulations.
Wash with solvents to be incinerated.

- **14 Transport information**

- **Land transport ADR/RID (cross-border)**

- **ADR/RID class:** Not classified - non dangerous product

- **15 Regulatory information**

- **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EC Directives / hazardous materials legislation / dir. 67/548 25° adaptation / dir. 88/379 4° adaptation.

- **Code letter and hazard designation of product:** Xn Harmful

- **Risk phrases:**

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

- **National regulations:**

- **Waterhazard class:**

Water hazard class 2 (Self-assessment): hazardous for water.

- **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:** E.S. & Q. A.

- **Contact:** Emergency phone: 0039 2 95231

- **References**

ECDIN (Environmental Chem. Data and Information Network) IUCLID (International Uniform Chemical Information Database) NIOSH - Registry of Toxic Effects of Chemical Substances Roth - Wassergefährdende Stoffe Verschueren - Handbook of Environmental

Data on Organic Chemicals ChemDAT - Safety Data Sheets from E.Merck
on CD-ROM Merian - Metals and their compounds in the environment