

Safety Data Sheet

According to EC Directive 91/155/EEC

1. Identification of the substance / preparation and of the company / undertaking

Identification of the product: Borax-Methylene Blue

Product name: Borax-Methylene Blue

Company / undertaking identification:

Company:

Emergency telephone No.:
Telefax:

2. Composition / information on ingredients

Chemical characterization:

Formula Hill:

Symbol:

R-phrases:

S-phrases:

For Borax is:

CAS-number: 1303-96-4

EC-number: 215-540-4

Content: > 1 %

For Methylene Blue is:

CAS-number: 61-73-4

EC-number: 200-515-2 |

Content: > 1 %

3. Hazards identification

No hazardous product as specified in Directive 67/548/EEC.

4. First aid measures

After inhalation: fresh air.

After skin contact: wash off with plenty of water. Remove contaminated clothing.

After eye contact: rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist if necessary.

After swallowing: make victim drink plenty of water. Induce vomiting. Call in physician.

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5. Fire-fighting measures

Suitable extinguishing media: water, powder, foam, CO₂.

Special risks: Non-combustible. Development of hazardous combustion gases or vapours possible in the event of fire.

Special protective equipment for fire fighting:

Do not stay in dangerous zone without self-contained breathing apparatus.

Other information:

Prevent fire-fighting water from entering surface water or groundwater.

6. Accidental release measures

Procedures for cleaning / absorption:

Take up with liquid-absorbent material. Forward for disposal. Clean up affected area.

Person-related precautionary measures:

Do not inhale vapours / aerosols.

Environmental-protection measures:

Do not allow to enter sewerage system.

7. Handling and storage

Handling: No further requirements.

Storage: Tightly closed. Dry. At +15°C to +25°C.

8. Exposure controls / personal protection

Personal protective equipment:

Respiratory protection: required when vapours / aerosols are generated.

Eye protection: required

Hand protection: Glove material: nitrile rubber

Layer thickness: 0.11 mm

Breakthrough time: > 480 Min.

The protective gloves to be used must comply with the specifications of EC directive 89/676/EEC and the resultant standard EN374. The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Industrial hygiene: Change contaminated clothing. Wash hands after working with substance. Application of skin- protective barrier cream recommended.

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9. Physical and chemical properties

Form:	liquid
Colour:	violet
Odour:	almost odourless
pH value:	not available
Melting point:	not available
Boiling point:	not available
Ignition temperature:	not available
Flash point:	not available
Explosion limits	lower: not available upper: not available
Density:	(20°C) 1.00 g/cm ³
Solubility in water:	(20°C) soluble

10. Stability and reactivity

Conditions to be avoided:	Strong heating.
Substances to be avoided:	Metallic salts, strong acids.
Hazardous decomposition products:	In the event of fire: See chapter 5.

11. Toxicological information

Acute toxicity:

Quantitative data on the acute toxicity of this product are not available.

Further toxicological information:

After inhalation of dust:	Irritation symptoms in the respiratory tract.
After eye contact:	Slight irritations.
After swallowing:	Slight irritations. Rapid absorption.
Resorption via:	Gastrointestinal tract, mucous membranes.

Other notes:

The following applies to boron compounds in general: resorption is followed by nausea and vomiting, agitation, spasms, CNS disorders, cardiovascular disorders.

Further data:

The product should be handled with the care usual when dealing with chemicals.

12. Ecological information:

Ecotoxic effects:	Quantitative data on the ecological effect of this product are not available.
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Further data:	No ecological problems are to be expected when the product is handled and used with due care and attention.
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13. Disposal considerations

Product:

Chemicals must be disposed of in compliance with the respective national regulations. Under www.retrologistik.de you will find country- and substance-specific information as well as contact partners.

Packaging:

Packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system. Under www.retrologistik.de you will find special information on the respective national conditions as well as contact partners.

14. Transport information

Not subject to transport regulations.

15. Regulatory information

Labelling according to EC Directives:

Symbol: ---

R-phrases: ---

S-phrases: ---

German regulations:

Storage class VCI: 10-13

Water pollution class: 1 (slightly polluting substance) VwVwS Anh. 2 KennNr. 37

16. Other information

Reason for alternation

General update.

update: December, 2008