

# Material Safety Data Sheet

according to ANSI Z400.1-2004

## Harmine

Print date: 11.06.2012

Product code: 1755

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### Product identifier

Harmine

### Further trade names

9H-Pyrido[3,4-b]indole, 7-methoxy-1-methyl-

Synonyms:

1-Methyl-7-methoxy- $\beta$ -carboline; 7-Methoxy-1-methyl-9H-pyrido[3,4-b]indole; Banisterin; Banisterine; Harmin; Harmine; Leucoharmine; Telepathin; Telepathine; Yagein; Yageine

### Chemical characterization ( substance )

9H-Pyrido[3,4-b]indole, 7-methoxy-1-methyl-

CAS No.: 442-51-3

### **Details of the supplier of the safety data sheet**

Company name:	ABX advanced biochemical compounds	
	Biomedizinische Forschungsreagenzien GmbH	
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**Emergency telephone:** +49 3528 4041 60

## SECTION 2: Hazards identification

**Route(s) of Entry**

## Signs and Symptoms of Exposure

Carcinogenicity (NTP):	No information available.
Carcinogenicity (IARC):	No information available.
Carcinogenicity (OSHA):	No information available.

### SECTION 3: Composition/information on ingredients

## Substances

Sum formula: C<sub>13</sub>H<sub>12</sub>N<sub>2</sub>O  
Molecular weight: 212.25

## Hazardous components

CAS No.	Components	Quantity
442-51-3	Harmine	95 - 100 %

## SECTION 4: First aid measures

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**Description of first aid measures****After inhalation**

Provide fresh air.

**After contact with skin**

After contact with skin, wash immediately with: Water. Change contaminated clothing.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

**After ingestion**

Rinse mouth immediately and drink large quantities of water. Medical treatment necessary.

**SECTION 5: Firefighting measures****Extinguishing media****Suitable extinguishing media**Water spray. Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>).**Special hazards arising from the substance or mixture**Can be released in case of fire: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. Nitrogen oxides (NO<sub>x</sub>).**Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Contaminated fire-fighting water must be collected separately. Do not empty into drains or the aquatic environment.

**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment. Provide adequate ventilation. Avoid generation of dust.

**Environmental precautions**

Do not empty into drains or the aquatic environment.

**Methods and material for containment and cleaning up**

Collect mechanically. Treat the assimilated material according to the section on waste disposal.

**SECTION 7: Handling and storage****Precautions for safe handling****Advice on safe handling**

Do not breathe dust. In case of open handling equipment with built-in suction must be used.

**Further information on handling**

Do not eat, drink, smoke or sneeze at the workplace.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container dry. Keep container tightly closed.

**Further information on storage conditions**

storage temperature:

of °C: -25

up to °C: -15

Protect against: Light.

Handling and storage Store under (Gas): argon. Nitrogen.

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**SECTION 8: Exposure controls/personal protection****Control parameters****Exposure controls****Protective and hygiene measures**

Change contaminated clothing. Wash hands before breaks and at the end of work. When using do not eat or drink. Protect skin by using skin protective cream.

**Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

**Hand protection**

Tested protective gloves are to be worn: Single-use gloves. NBR (Nitrile rubber).

**Eye protection**

Eye protection: Tightly sealed safety glasses.

**Skin protection**

Skin protection: Lab apron. Chemical resistant safety shoes.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties**

Form: solid  
Color: colourless, off-white

**Test method****Changes in the physical state**

Solubility in other solvents: dimethylsulphoxide (DMSO), chloroform

**SECTION 10: Stability and reactivity**

Stability: Stable  
Possibility of Hazardous Reactions: Will not occur

**Conditions to avoid**

Light.

**Hazardous decomposition products**

Carbon dioxide. Carbon monoxide. Nitrogen oxides (NO<sub>x</sub>).

**SECTION 11: Toxicological information****Information on toxicological effects****Carcinogenic/mutagenic/toxic effects for reproduction**

No information available.

**Additional information on tests**

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

**SECTION 12: Ecological information****Further information**

Do not empty into drains or the aquatic environment. The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

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**SECTION 13: Disposal considerations****Waste treatment methods****Advice on disposal**

Do not empty into drains or the aquatic environment. Waste disposal according to official state regulations.

**Contaminated packaging**

Cleaned containers may be recycled. Handle contaminated packaging in the same way as the substance itself.

**SECTION 14: Transport information****US DOT 49 CFR 172.101****Proper shipping name**

Not a hazardous material with respect to transportation regulations.

**Other applicable information**

Not a hazardous material with respect to these transportation regulations.

**SECTION 15: Regulatory information****U.S. Regulations****SECTION 16: Other information****Hazardous Materials Information Label (HMIS)**

Health:	2
Flammability:	1
Physical Hazard:	1
Personal Protection:	C

**NFPA Hazard Ratings**

Health:	2
Flammability:	1
Reactivity:	1
Unique Hazard:	

