according to UK REACH Regulation

according to UK REACH Regulation				
Harmine				
Revision date: 24.03.2022	Product code:	1755	Page 1 of 5	
SECTION 1: Identificatio	on of the substance/mixture and of the c	company/undertaking		
<u>1.1. Product identifier</u> Harmine				
Further trade names	ole, 7-methoxy-1-methyl-			
Synonyms: 1-Methyl-7-methoxy-	-ß-carboline; 7-Methoxy-1-methyl-9H-pyrido[3 nine; Telepathin; Telepathine; Yagein; Yagein 442-51-3			
1.2. Relevant identified use	es of the substance or mixture and uses adv	<u>vised against</u>		
Use of the substance/m	nixture			
Reference standard	for [11C]-Harmine			
1.3. Details of the supplier	of the safety data sheet			
Company name:	ABX advanced biochemical com			
	Biomedizinische Forschungsrea	genzien GmbH		
Street:	Heinrich-Gläser-Straße 10-14			
Place:	01454 Radeberg	Talafaw + 40 2520 4044 65		
Telephone: e-mail:	+49 3528 4041 60 info@abx.de	Telefax: +49 3528 4041 65		
Contact person:	Dr. Christoph Meyer	Telephone: +49 3528 4041 8732		
e-mail:	meyer@abx.de			
Internet:	http://www.abx.de			
1.4. Emergency telephone number:	+49 3528 4041 60			
SECTION 2: Hazards ide	ntification			
SECTION 2: Hazards Ide	Intification			
2.1. Classification of the su	ubstance or mixture			
GB CLP Regulation				
Acute Tox. 4; H332				
Acute Tox. 4; H312				
Acute Tox. 4; H302 Eye Irrit. 2; H319				
Lye iint. 2, 11519				
Full text of hazard st	atements: see SECTION 16.			
2.2. Label elements				
GB CLP Regulation				
Signal word:	Warning			
-				
Pictograms:				
Hazard statements	×			
H302	Harmful if swallowed.			
H312	Harmful in contact with skin.			
H332	Harmful if inhaled.			

Revision No: 1,01

H319

Causes serious eye irritation.

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Harmine				
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Precautionary statemer	nts			
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.			
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			

SECTION 3: Composition/information on ingredients

3.1. Substances

9H-Pyrido[3,4-b]indole, 7-	methoxy-1-methyl-
Sum formula:	C13H12N2O
Molecular weight:	212.25

Hazardous components

CAS No	Chemical name				Quantity
	EC No Index No REACH No				
	Classification (GB CLP Regulation)				
442-51-3	Harmine				95 - < 100 %
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2; H332 H312 H302 H319				

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No Chemical name			
Specific Conc. Limits, M-factors and ATE				
442-51-3	Harmine 95			
inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg; oral: ATE = 500 mg/kg				

SECTION 4: First aid measures

4.1. 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 plenty of water. Medical treatment necessary.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray. Foam. Extinguishing powder. Carbon dioxide (CO2).

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO2). Carbon monoxide Nitrogen oxides (NOx).

5.3. Advice for firefighters

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

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Additional information

Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Wear personal protection equipment. Provide adequate ventilation. Avoid dust formation.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Other information

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not breathe dust. If handled uncovered, arrangements with local exhaust ventilation have to be used.

Advice on general occupational hygiene

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

Further information on handling

When using do not eat, drink, smoke, sniff.

7.2. 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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Eye protection: Tightly sealed safety glasses.

Hand protection

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

Skin protection

Body protection: Lab apron. Chemical resistant safety shoes.

Respiratory protection

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

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: solid colourless, whitish

Changes in the physical state

Solubility in other solvents

dimethylsulphoxide (DMSO)., Chloroform

SECTION 10: Stability and reactivity

10.4. Conditions to avoid

Light.

Colour:

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Nitrogen oxides (NOx).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
442-51-3	Harmine					
	oral	ATE mg/kg	500			
	dermal	ATE mg/kg	1100			
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			

Carcinogenic/mutagenic/toxic effects for reproduction

No information available.

Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 12: Ecological information

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

Further information

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

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List of Wast 160508		RWISE SPECIFIED IN THE LIST; gases in pressure containers and iscarded organic chemicals consisting of or containing hazardous	
List of Wast 160508		RWISE SPECIFIED IN THE LIST; gases in pressure containers and iscarded organic chemicals consisting of or containing hazardous waste	
List of Wast 150110	PROTECTIVE CLOTHI	ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND ING NOT OTHERWISE SPECIFIED; packaging (including separately ckaging waste); packaging containing residues of or contaminated by	
		be recycled. Handle contaminated packages in the same way as the	
SECTION 14:	Transport information		
Other applicabl No dange	e information erous good in sense of the	ese transport regulations.	
SECTION 15:	Regulatory information	1	
<u>15.1. Safety, he</u>	alth and environmental re	egulations/legislation specific for the substance or mixture	
-	ry information on use (REACH, annex X∖	/II):	
National reg	ulatory information		
Water hazaro	d class (D):	3 - highly hazardous to water	
SECTION 16:	Other information		
Relevant H a	Ind EUH statements (num	nber and full text)	

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.