

Safety Data Sheet

according to UK REACH Regulation

Diprenorphine hydrochloride

Revision date: 25.03.2022

Product code: 2010

Page 1 of 5

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Diprenorphine hydrochloride

Further trade names

6,14-Ethenomorphinan-7-methanol, 17-(cyclopropylmethyl)

-4,5-epoxy-18,19-dihydro-3-hydroxy-6-methoxy-a,a-dimethyl-, (5alpha, 7alpha), hydrochloride

Synonyms:

DPN x HCl

CAS No:

16808-86-9

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Reference standard for [11C]Diprenorphine

Nonselective opioid receptor antagonist

1.3. Details of the supplier of the safety data sheet

Company name:

ABX advanced biochemical compounds
Biomedizinische Forschungsreagenzien GmbH

Street:

Heinrich-Gläser-Straße 10-14

Place:

01454 Radeberg

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1.4. Emergency telephone number:

+49 3528 4041 60

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

Acute Tox. 4; H312

Acute Tox. 4; H302

Skin Irrit. 2; H315

Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

Diprenorphine hydrochloride

Signal word:

Warning

Pictograms:

**Hazard statements**

H302+H312

Harmful if swallowed or in contact with skin.

H315

Causes skin irritation.

Safety Data Sheet

according to UK REACH Regulation

Diprenorphine hydrochloride

Revision date: 25.03.2022

Product code: 2010

Page 2 of 5

H319 Causes serious eye irritation.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

2.3. Other hazards

Controlled substance, license required in most countries.

SECTION 3: Composition/information on ingredients**3.1. Substances****Chemical characterization**6,14-Ethenomorphinan-7-methanol, 17-(cyclopropylmethyl)
-4,5-epoxy-18,19-dihydro-3-hydroxy-6-methoxy-a,a-dimethyl-, (5alpha, 7alpha), hydrochlorideSum formula: C₂₆H₃₆ClNO₄

Molecular weight: 462.02

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
16808-86-9	Diprenorphine hydrochloride			95 - < 100 %
	Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H312 H302 H315 H319			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
16808-86-9		Diprenorphine hydrochloride	95 - < 100 %
		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

Call a physician immediately.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**Co-ordinate fire-fighting measures to the fire surroundings. Suitable extinguishing media: Foam. Extinguishing powder. Carbon dioxide (CO₂). Atomized water.**5.3. Advice for firefighters**

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

Safety Data Sheet

according to UK REACH Regulation

Diprenorphine hydrochloride

Revision date: 25.03.2022

Product code: 2010

Page 3 of 5

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**6.2. 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. Conditions to avoid: skin contact. Eye contact. Wear personal protection equipment. When using do not eat, drink, smoke, sniff.

Advice on general occupational hygiene

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

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

Recommended storage temperature:

of °C: 2

up to °C: 8

Protect against: Light. 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**Appropriate engineering controls**

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

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:

solid

Colour:

colourless, whitish

Changes in the physical state

Water solubility:

easily soluble.

Solubility in other solvents

dimethylsulphoxide (DMSO).

SECTION 10: Stability and reactivity

Safety Data Sheet

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Diprenorphine hydrochloride

Revision date: 25.03.2022

Product code: 2010

Page 4 of 5

10.4. Conditions to avoid

Light.

10.6. Hazardous decomposition productsCarbon dioxide. Carbon monoxide. Nitrogen oxides (NO_x). Hydrochloric gas.**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
16808-86-9	Diprenorphine hydrochloride				
	oral	ATE mg/kg	500		
	dermal	ATE mg/kg	1100		

Information on likely routes of exposure

Controlled substance, license required in most countries.

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.

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.

List of Wastes Code - residues/unused products

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; hazardous waste

List of Wastes Code - used product

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled.

SECTION 14: Transport information

Safety Data Sheet

according to UK REACH Regulation

Diprenorphine hydrochloride

Revision date: 25.03.2022

Product code: 2010

Page 5 of 5

Other applicable information

Not a hazardous material with respect to these transportation regulations.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 75

National regulatory information

Water hazard class (D): 3 - highly hazardous to water

SECTION 16: Other information**Relevant H and EUH statements (number and full text)**

H302	Harmful if swallowed.
H302+H312	Harmful if swallowed or in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.