according to UK REACH Regulation

| | Diprenorphi | ne | |
|--|---|-------------------------------|-------------|
| Revision date: 25.03.2022 | Product code: | | Page 1 of 5 |
| SECTION 1: Identification of the s | ubstance/mixture and of the o | company/undertaking | |
| <u>1.1. Product identifier</u> Diprenorphine | | | |
| Further trade names 6,14-Ethenomorphinan-7-metha -4,5-epoxy-18,19-dihydro-3-hyd | anol, 17-(cyclopropylmethyl) roxy-6-methoxy-a,a-dimethyl-, (5a | lpha, 7alpha) | |
| Synonyms: DPN | | | |
| CAS No: | 14357-78-9 | | |
| 1.2. Relevant identified uses of the su | ubstance or mixture and uses ad | vised against | |
| Use of the substance/mixture Reference standard for [11C]D Nonselective opioid receptor an | • • | | |
| 1.3. Details of the supplier of the safe | ety data sheet | | |
| Company name: | ABX advanced biochemical com | • | |
| Street: Place: | Biomedizinische Forschungsrea Heinrich-Gläser-Straße 10-14 01454 Radeberg | genzien GmbH | |
| Telephone: e-mail: | +49 3528 4041 60 info@abx.de | Telefax: +49 3528 4041 65 | |
| Contact person: e-mail: Internet: | Dr. Christoph Meyer meyer@abx.de http://www.abx.de | Telephone: +49 3528 4041 8732 | |
| <u>1.4. Emergency telephone</u> number: | +49 3528 4041 60 | | |
| SECTION 2: Hazards identification | n | | |

2.1. Classification of the substance or mixture

GB CLP Regulation

Acute Tox. 4; H312 Acute Tox. 4; H302 Acute Tox. 5; H333 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

Signal word: Pictograms:

Warning



Hazard statements H302+H312

Harmful if swallowed or in contact with skin.

according to UK REACH Regulation

| Diprenorphine | | | | |
|---|---|------------------------|-----------------------------------|--------------|
| Revision date: 25.03.202 | 2 | Product co | | Page 2 of 5 |
| H315 | Causes skin irritat | ion. | | |
| H319 | Causes serious ey | | | |
| H335 | May cause respira | atory irritation. | | |
| Precautionary statem | | | | |
| P280 | Wear protective gl protection. | loves/protective cloth | ng/eye protection/face protection | n/hearing |
| 2.3. Other hazards | | | | |
| Controlled substa | nce, license required ir | n most countries. | | |
| SECTION 3: Composit | ion/information on | ingredients | | |
| 3.1. Substances | | | | |
| | ation ninan-7-methanol, 17-(o dihydro-3-hydroxy-6-mo | | (5alpha, 7alpha) | |
| Sum formula: | | 35NO4 | , | |
| Molecular weight: | 425.56 | | | |
| Hazardous components | | | | |
| CAS No Chemical r | | | | Quantity |
| EC No | | Index No | REACH No | |
| Classificat | on (GB CLP Regulation) | 1 | • | |
| 14357-78-9 Diprenorph | nine | | | 95 - < 100 % |
| Acute Tox. 4, Acute Tox. 4, Acute Tox. 5, Skin Irrit. 2, Eye Irrit. 2; H312 H302 H333 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. L | imits, M-factors and ATE | | |
| 14357-78-9 | | Diprenorphine | 95 - < 100 % | |
| | inhalation: ATE = 25 mg/l (vapours); inhalation: ATE = 6,25 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

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

according to UK REACH Regulation

| Diprenorphine |
|---------------|
|---------------|

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

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: -25 up to °C: -15 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

Solubility in other solvents

Chloroform. dimethylsulphoxide (DMSO). Dichloromethane: ethyl acetate.

SECTION 10: Stability and reactivity

10.4. Conditions to avoid

Light.

according to UK REACH Regulation

Diprenorphine

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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 |
| 14357-78-9 | Diprenorphine | | | | | |
| | oral | ATE mg/kg | 500 | | | |
| | dermal | ATE mg/kg | 1100 | | | |
| | inhalation vapour | ATE | 25 mg/l | | | |
| | inhalation dust/mist | ATE | 6,25 mg/l | | | |

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

according to UK REACH Regulation

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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. |
| H333 | May be harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| | |