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# **CLOZAPINUM**

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Product name: Clozapine

Clozapinum Clozapine Clozapine Clozapin 5786-21-0

N° CAS: 5786-21-0 N° EC: 227-313-7

## 1.2 Relevant identified uses of the substance/mixture and uses advised against

Identified uses: Active Pharmaceutical Ingredient or Excipient.

# 1.3 Details of the supplier of the safety data sheet

Company: Magis-Pharma NV

Neerlandweg 24 2610 Wilrijk Belgium

Telephone: (+32) (0)3 457 11 76
Email: info@magis-pharma.be
Web page: www.magis-pharma.be

# 1.4 Emergency telephone number

Public utility foundation: Belgisch Antigifcentrum Centre Antipoisons Belge

Telephone: (+32) (0)70 245 245 (Service 24/7)

Web page: www.antigifcentrum.be www.centreantipoisons.be

#### **SECTION 2: HAZARDS IDENTIFICATION**

# 2.1 Classification of the substance/mixture

## Classification according to (EC) n° 1272/2008

Acute Tox. 3 H301 Muta. 2 H341 Repr. 2 H361

# 2.2 Label elements

# Labelling according to (EC) n° 1272/2008

Hazard pictogram(s):



Signal word(s): Danger

# M A G I S

# **MATERIAL SAFETY DATA SHEET**

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Hazard statements:

H301 Toxic if swallowed.

H341 Suspected of causing genetic defects.

H361 Suspected of damaging fertility or the unborn child.

Precautionary statements:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P281 Use personal protective equipment as required.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P308+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see on this label).

P330 Rinse mouth.
P405 Store locked up.

P501 Dispose of contents/container at hazardous or special waste collection point.

Dispose in a safe manner in accordance with local/national regulations.

Additional applicable label

elements:

Not applicable.

## 2.3 Other hazards

Not available.

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1 Substances

Product name: Clozapine

IUPAC name: 3-chloro-6-(4-methylpiperazin-1-yl)-11H-benzo[b][1,4]benzodiazepine

Synonyms: Leponex

Fazaclo Clorazil Iprox

 $N^{\circ}$  CAS: 5786-21-0  $N^{\circ}$  EC: 227-313-7 Molecular Formula:  $C_{18}H_{19}CIN_4$ 

Content: 99.0 per cent to 101.0 per cent (dried substance)

#### 3.2 Mixtures

Not applicable.

## **SECTION 4: FIRST AID MEASURES**



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## 4.1 Description of first aid measures

After inhalation: Assure fresh air breathing. Rest. If you feel unwell, seek medical advice.

After skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water,

followed by warm water rinse.

After eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking,

tears or redness persist.

Rinse mouth. If swallowed, seek medical advice immediately and show this After ingestion:

container or label.

#### 4.2 Most important symptoms and effects, both acute and delayed

Not available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

In case of reactions described in hazards identification or other severe, immediate or persisting symptoms, seek medical advice and call the nearest poison centre. Show the label and this safety data sheet.

## **SECTION 5: FIREFIGHTING MEASURES**

## 5.1 Extinguishing media

Suitable extinguishing media: Water spray. Carbon dioxide. Dry powder.

Unsuitable extinguishing media: Do not use a heavy water stream.

## 5.2 Special hazards arising from the substance/mixture

Not available.

## 5.3 Advice for firefighters

Surrounding fires: Use water spray or fog for cooling exposed containers.

Avoid (reject) fire-fighting water to enter the environment. Prevent

entry to sewers and public water.

Protection against fire: Do not enter fire area without proper protective equipment,

including respiratory protection.

Incomplete combustion will generate poisonous carbon monoxide, Hazardous combustion products:

carbon dioxide and other toxic gases.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

## 6.1 Personal precautions, protective equipment and emergency procedures

## For non-emergency personnel

Remove ignition sources. Evacuate area. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.

#### For emergency responders

Remove ignition sources. Evacuate area. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.

## 6.2 Environmental precautions

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Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

### 6.3 Methods and material for containment and cleaning up

Clean spills promptly. To clean the floor and all objects contaminated by this material, use: sodium hypochlorite solution. Ensure adequate ventilation.

#### 6.4 Reference to other sections

Not available.

#### **SECTION 7: HANDLING AND STORAGE**

# 7.1 Precautions for safe handling

Precautions for safe handling: Not available.

Personal protection: Avoid all unnecessary exposure. Ensure prompt removal from eyes,

skin and clothing.

Technical protective measures: Material should be handled in a laboratory hood whenever possible.

Handling: Handle in accordance with good industrial hygiene and safety

procedures.

## 7.2 Conditions for safe storage, including any incompatibilities

CLOZAPINE CRS is not intended for long-term storage. Keep Storage:

container tightly closed in a cool, well-ventilated place.

Conditions for safe storage, including any

incompatibilities:

Keep container tightly closed in a cool, well-ventilated place.

All heat sources, including direct sunlight. Open flame. Sources of Storage – away from:

ignition. Sparks. Incompatible materials, see section 10

## 7.3 Specific end use(s)

Active Pharmaceutical Ingredient or Excipient

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

## 8.1 Control parameters

Not available.

#### 8.2 Exposure controls

#### Appropriate engineering control

Provide local exhaust or general room ventilation. Material should be handled in a laboratory hood whenever possible.

## **Individual protection measures**

Eye/face protection: Chemical goggles or safety glasses. Skin protection: Wear suitable protective clothing.

Hand protection: Wear suitable gloves resistant to chemical penetration. EN

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Respiratory protection: Wear approved mask. (P3)

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards: Not determined.

**Environmental exposure control** 

Not available.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### 9.1 Information on basic physical and chemical properties

Appearance: Yellow, crystalline powder.

Odour: Not available.

Odour threshold: Not available.

pH: Not available.

Melting/freezing point: 182 °C to 186 °C

Initial boiling point: Not available.

Boiling range:

Flash point:

Not available.

Evaporation rate:

Not available.

Not available.

Not available.

Upper/lower flammability or

explosive limits:

Not available.

Vapour pressure: Not available.
Vapour density: Not available.
Relative density: Not available.

Solubility: Freely soluble in methylene chloride.

Soluble in ethanol (96 per cent). It dissolves in dilute acetic acid.

Solubility in water: Practically insoluble in water.

Partition coefficient

(n-octanol/water):

Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Viscosity: Not available.

Explosive properties: Not available.

Oxidising properties: Not available.

## 9.2 Other information

Molecular weight: 326.8



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## **CLOZAPINUM**

## **SECTION 10: STABILITY AND REACTIVITY**

#### 10.1 Reactivity

Stable under normal conditions.

## 10.2 Chemical stability

Stable under normal conditions.

## 10.3 Possibility of hazardous reactions

None under normal conditions.

Hazardous polymerisation will not occur.

#### 10.4 Conditions to avoid

Moisture. Light.

#### 10.5 Incompatible materials

Strong oxidisers.

## 10.6 Hazardous decomposition products

Carbon monoxide.

Chlorides.

Nitrogen oxides.

Carbon dioxide.

When heated to decomposition, emits dangerous fumes.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

## 11.1 Information on toxicological effects

Acute toxicity: Oral LD<sub>50</sub> (rat): 172 mg/kg

Weakness. Nervous system disorders. Can affect blood cell formation. Changes in

blood pressure. May produce irregular heartbeat and nervous symptoms. Sleepiness. Causes depressions of the respiratory system. Weight gain.

Skin corrosion/irritation: Not available. Serious eye damage/irritation: Not available. Respiratory/skin sensitisation: Not available. Germ cell mutagenicity: Not available. Carcinogenicity: Not available.

Reproductive toxicity: Category 3: Substances which cause concern for humans owing possible

developmental toxic effects.

Summary of evaluation of the

CMR properties:

Not available.

Not available. STOT-single exposure: STOT-repeated exposure: Not available.



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Aspiration Hazard: Not available.

Other: RTECS: HP1750000

## 11.2 Additional information on potential adverse human health effects and symptoms

Eye contact:

Skin contact:

Not available.

Inhalation:

Not available.

Not available.

Not available.

Not available.

Not available.

Aspiration:

Not available.

## **SECTION 12: ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

 $LC_{50} - 96h - Fish$  0.71 mg/l  $EC_{50} - 48 h - Daphnia magna$  2 mg/l  $IC_{50} - 72 h - Algae$  2.38 mg/l

## 12.2 Persistence and degradability

Biodegradation: 5%. Minimally biodegradable.

## 12.3 Bioaccumulative potential

Not available.

## 12.4 Mobility in soil

Not available.

#### 12.5 Results of PBT and vPvB assessment

Not available.

# 12.6 Other adverse effects

Avoid release to the environment.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

## 13.1 Waste treatment methods

General: Dispose of this material and its container at hazardous or special waste collection point. Dispose in a safe manner in accordance with local/national regulations.

Special precautions: This product contains hazardous components for the environment. Avoid release to the environment.

## **SECTION 14: TRANSPORT INFORMATION**

Transport information according to ADR/RID/IMDG/ICAO/IATA

## 14.1 UN Number



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ADR/RID(Land),IMDG(Sea),

IATA/ICAO (Air):

2811

14.2 UN proper shipping name

ADR/RID(Land),IMDG(Sea),

IATA/ICAO (Air):

TOXIC SOLIC, ORGANIC, N.O.S. (Clozapine)

14.3 Transport hazard class(es)

ADR/RID(Land),IMDG(Sea),

IATA/ICAO (Air):

6.1

14.4 Packing group

ADR/RID(Land),IMDG(Sea),

IATA/ICAO (Air):

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14.5 Environmental hazards

ADR/RID(Land),IMDG(Sea),

IMDG - Marine pollution: Yes.

IATA/ICAO (Air):

14.6 Special precautions for user

Not available.

14.7 Transport in bulk according to annex II of Marpol and the IBC Code

Not available.

14.8 Additional transport information

Not available.

#### **SECTION 15: REGULATORY INFORMATION**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance/mixture

Hazard symbol:





Risk phrases:

R25 Toxic if swallowed.

R62 Possible risk of impaired fertility.

R63 Possible risk of harm to the unborn child.

Safety phrases:

S1 Keep locked up.

S20/21 When using do not eat, drink or smoke.

S46 If swallowed, seek medical advice immediately and show this container or

label.

S53 Avoid exposure - obtain special instructions before use.

S56 Dispose of this material and its container at hazardous or special waste

collection point.

S61 Avoid release to the environment. Refer to special instructions/Safety data

sheets.

S64 If swallowed, rinse mouth with water (only if the person is conscious).

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# 15.2 Chemical safety assessment

Not available.

## **SECTION 16: OTHER INFORMATION**

#### 16.1 Changes since the previous version

Not applicable.

## 16.2 Abbreviations and acronyms used

ADR: European Agreement concerning the International Carriage of Dangerous Goods by

CAS: Chemical Abstracts Service (division of the American Chemical Society)

European Community (number) EC (number):

IATA: **International Air Transport Association** ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods **IUPAC:** International Union of Pure and Applied Chemistry PBT: Persistent, Bioaccumulative and Toxic substance

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

STOT: Specific Target Organ Toxicity UN (number): United Nations (number)

vPvB: very Persistent and very Bioaccumalative

#### 16.3 Key literature references/sources for data

European Chemicals Agency.

https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/

#### 16.4 Method of classification in case of mixture

Not applicable.

## 16.5 Relevant Hazard statements and/or precautionary statements

For information on hazard and/or precautionary statements refer to section 2 up to and including section 15.

#### 16.6 Training advisement

Not available

## 16.7 Notice for user(s)

The information provided in this MSDS has been established in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council, on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.

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This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information has been compiled from sources considered to be dependable and is accurate to the best of the FSA NV's knowledge. However, the information is provided without any representation or warranty, expressed or implied regarding its accuracy or correctness. FSA NV cannot assume responsibility for adverse events which may occur in the use and/or misuse of this product and expressly disclaims liability for loss, damage and/or expense arising out of or in any way connected with the handling, storage, use and/or disposal of this product.

## 16.8 Department issuing MSDS

Quality Department FAC SECUNDUM ARTEM NV info@magis-pharma.be