

## Safety Data Sheet

acc. to OSHA HCS

Date of issue: 02/26/2025

Revision date 02/26/2025

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## **1** Identification

- · Product identifier
- · Trade name: Miriplatin
- Synonym
- · CAS Number:
- 141977-79-9
- · Other means of identification
- Article number: 43264
   Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use.
- Details of the supplier of the safety data sheet
   Manufacturer/Supplier: Cayman Chemical Co.
   1180 E. Ellsworth Rd. Ann Arbor, MI 48108
- USA

GHS07

- · Information department: Product safety department
- Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

## 2 Hazard(s) identification

· Classification of the substance or mixtu	re
GHS07	
Acute toxicity - oral 4	H302 Harmful if swallowed.
Skin irritation 2	H315 Causes skin irritation.
Eye irritation 2A	H319 Causes serious eye irritation.
Specific target organ toxicity (single exposu	re) 3 H335 May cause respiratory irritation.
<ul> <li>Label elements</li> <li>GHS label elements</li> <li>The substance is classified and labeled acc</li> <li>Hazard pictograms</li> </ul>	cording to the Globally Harmonized System (GHS).



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<ul> <li>Signal word Warning</li> <li>Hazard statements</li> <li>H302 Harmful if swallowed.</li> <li>H315 Causes skin initiation.</li> <li>H315 Causes skin initiation context is skin initiation causes skin initiation.</li> <li>H312 If swallowed: Call a poison center/doctor if you feel unwell.</li> <li>H312 If swallowed: Call a poison center/doctor if you feel unwell.</li> <li>H312 If skin Wash with plenty of water.</li> <li>H315 Causes and the prese Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>H325+P336 If regress Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>H325+P341 If se virination presists: Get medical advice/attention.</li> <li>P332+P343 If se virination persists: Get medical advice/attention.</li> <li>P332+P343 If se virination persists: Get medical advice/attention.</li> <li>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>Information pertaining to particular dangers for man and environment:</li> <li>Classification system:</li> <li>NFPA ratings (scale 0 - 4)</li> <li>WEA ratings (scale 0 - 4)</li> <li>Weat a preset and vPVB assessment</li> <li>P37: Not applicable.</li> <li>Classification according to (d)(1)(ii) of \$1910.1200</li> <li>The at passi</li></ul>	<b>O</b> : 1 114	(Contd. from page 1)
H302 Harmful if swallowed. H315 Causes skin irritation. H335 May cause respiratory irritation. H335 May cause respiratory irritation. H335 May cause respiratory irritation. H335 May cause respiratory irritation. Procautionary statements P261 Avoid breathing dust/fume/gas/mist/vapors/spray P264 Wash thoroughly dater handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves / vey protection / face protection. P301+P312 If swallowed: Call a poison center/doctor if you feel unwell. P302+P352 If on skin: Wash with plenty of water. P321 Specific treatment (see on this label). P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 If skin irritation occurs: Get medical advice/attention. P332+P313 If eye irritation persists: Get medical advice/attention. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. INFPA ratings (scale 0 - 4) Weath = 2 Fire = 0 Reactivity = 0 Health = 2 Fire = 0 Reactivity = 0 Halth = 1 Harthore		
H315 Causes skin irritation.         H319 Causes serious eye irritation.         H325 May cause respiratory irritation.         Precautionary statements         P261       Avoid breathing dust/fume/gas/mist/vapors/spray         P264       Wash thoroughly after handling.         P270       Do not eat, drink or smoke when using this product.         P271       Use only outdoors or in a well-ventilated area.         P280       Wear protective gloves / eye protection / face protection.         P311 P212       If smallowed: Call a poison center/doctor if you feel unwell.         P333       Rinse mouth.         P3221       Specific treatment (see on this label).         P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P332+P313       If skin irritation occurs: Get medical advice/latention.         P342+P334       If eye irritation presists: Get medical advice/latention.         P342+P335       Toke of contaminated clothing and wash it before reuse.         P337+P313       If eye irritation presists: Get medical advice/latention.         P405       Store in a well-ventilated place. Keep container tightly closed.         P406       Store locked up.         P501       Dispose of contents/container in accordance with local/regional/national/international regulations.		
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### **3** Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- 141977-79-9 Miriplatin

## 4 First-aid measures

- · Description of first aid measures
- General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Immediately call a doctor.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

## **5 Fire-fighting measures**

- Extinguishing media
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment. A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Ensure adequate ventilation.
- · Protective Action Criteria for Chemicals
- · PAC-1: Substance is not listed.
- · PAC-2: Substance is not listed.
- · PAC-3: Substance is not listed.
- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

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### 7 Handling and storage

#### · Precautions for safe handling

No special precautions are necessary if used correctly.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid prolonged or repeated exposure.

Keep away from sources of ignition. Take precautionary measures against static discharge.re.

· Information about protection against explosions and fires: No special measures required.

- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.

• Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

- Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- Appropriate engineering controls No further data; see section 7.
- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

#### • Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

#### · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye protection:



Tightly sealed goggles

## 9 Physical and chemical properties

Information on basic physical and chemica	al properties
· General Information	Q-III
· Physical state	Solid
· Color:	Not determined.
· Odor:	Characteristic
Structural Formula	C34H68N2O4Pt
· Molecular Weight	764 g/mol
• Storage Buffer	Niet determein ein
· Odor threshold:	Not determined.
• Formulation	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flammability:	Product is not flammable.
Explosion limits:	
· Lower:	Not determined.
Upper:	Not determined.
· Flash point:	Not applicable.
Decomposition temperature:	Not determined.
· pH-value:	Not applicable.
Viscosity:	
· Kinematic:	Not applicable.
SOLUBILITY	
Dynamic:	Not applicable.
· Solubility in / Miscibility with	
Water:	Not determined.
<ul> <li>Partition coefficient (n-octanol/water):</li> </ul>	Not determined.
· Vapor pressure:	Not applicable.
Vapor pressure:	
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not applicable.
Particle characteristics	Not determined.
• Other information	
· Appearance:	
· Form:	Solid
Important information on protection of hea	
and environment, and on safety.	
· Ignition temperature:	Not determined.
<sup>·</sup> Danger of explosion:	Product does not present an explosion hazard.
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- <sup>·</sup> Change in condition
- Evaporation rate

Not applicable.

## **10 Stability and reactivity**

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

#### **11 Toxicological information**

- · Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Interactive effects No interactive effects between components are known.
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.
- Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

## **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · **Bioaccumulative potential** No further relevant information available.
- Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects
- · Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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### **13 Disposal considerations**

· Waste treatment methods

#### · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

#### Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

UN-Number		
DOT, IMDG, IATA	not regulated	
UN proper shipping name DOT, IMDG, IATA	not regulated	
Transport hazard class(es)		
DOT, ADN, IMDG, IATA		
Class	not regulated	
Packing group		
DOT, IMDG, IATA	not regulated	
Environmental hazards:	Not applicable.	
Transport in bulk according to Annex	ll of	
MARPOL73/78 and the IBC Code	Not applicable.	
Special precautions for user	Not applicable.	
UN "Model Regulation":	not regulated	

## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara
- · Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.

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#### • Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- · Date of preparation 02/26/2025
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety & Health
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit
- Acute toxicity oral 4: Acute toxicity Category 4
- Skin irritation 2: Skin corrosion/irritation Category 2
- Eye irritation 2A: Serious eye damage/eye irritation Category 2A
- Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) Category 3