



# Corlanor® Safety Data Sheet

Revision Number: 6

Date Issued 17-Mar-2026

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERSTANDING

### 1.1 Product identifier

**Product Name:** Corlanor®  
**Common Name:** Ivabradine  
**Chemical Name:** 3-{ 3-[[ (7S)-3,4-dimethoxybicyclo[4.2.0]octa-1,3,5-trien-7-yl]methyl} (methyl)amino]  
**Synonyms:** Ivabradine, AMG 998

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

**Recommended Use:** Pharmaceutical  
**Uses advised against:** No information available

**Manufacturer:** Amgen Inc.  
 One Amgen Center Drive  
 Thousand Oaks, California 91320-1799  
 1-805-447-7233  
 1-805-447-1000

**Emergency Telephone Number:** Chemtrec  
 NORTH AMERICA 1-800-424-9300,  
 INTERNATIONAL 1-703-527-3887

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

Pharmaceutical product intended for clinical and commercial manufacturing purposes only. Product contains an active pharmaceutical ingredient, ivabradine, intended for oral treatment coronary artery disease and chronic heart failure. Effect of lowering of heart rate may occur if exposures repeatedly exceed the Occupational Exposure Limit describe in Section 8. Avoid inhalation, skin contact, eye contact, and accidental ingestion.

### 2.1 - Classification of the drug substance or mixture (drug product in final form, not applicable)

REGULATION (EC) No 1272/2008, WHMIS 2015 (Health Canada), and Hazard Communication Standard No. 1910.1200 (US OSHA)

Acute Oral Toxicity	Category 4
Reproductive Toxicity	Category 1B
Specific TOST - Repeated Exposure Oral	Category 2 Heart
Chronic aquatic toxicity	Chronic 2

### 2.2 Label elements



Signal Word

Danger



# Corlanor® Safety Data Sheet

Revision Number: 6

Date Issued 17-Mar-2026

## SGHH0999

H302 - Harmful if swallowed  
H360 - May damage fertility or the unborn child  
H373 - May cause damage to organs through prolonged or repeated exposure  
H411 - Toxic to aquatic life with long lasting effects

## GHSP0642

P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P281 - Use personal protective equipment as required  
P308 + P313 - If exposed or concerned: Get medical advice/ attention  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray

**2.3 Other Hazards** No information available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

<b>Ingredients:</b>	Active Ingredient - Ivabradine
<b>Chemical Name:</b>	3-{ 3-[[ (7S)-3,4-dimethoxybicyclo[4.2.0]octa-1,3,5-trien-7-yl]methyl} (methyl)amino]
<b>CAS-No:</b>	148849-67-6

## 4. FIRST AID MEASURES

### 4.1 Description of first-aid measures

<b>Eye Contact:</b>	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
<b>Skin Contact:</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Consult a physician if necessary.
<b>Inhalation:</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Ingestion:</b>	If symptoms persist, call a physician. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
<b>Notes to Physician:</b>	Treat symptomatically.



# Corlanor® Safety Data Sheet

Revision Number: 6

Date Issued 17-Mar-2026

## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

**Flammable Properties:** No information available.

**Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### 5.2 Special hazards arising from the substance or mixture

**Hazardous Combustion Products:** No information available.

### 5.3 Advice for firefighters

**Protective Equipment and Precautions for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH (approved) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

**Spill Procedures:** If material is released or spilled, cordon off spill area. Take proper precautions to minimize exposure by using appropriate personal protective equipment in cleaning up a spill. If in powder form, wet down spilled material to minimize airborne dispersion. Soak up material with absorbent e.g., paper towels, and wash spill area thoroughly with appropriate cleaning materials. Dispose of collected material in accordance with applicable waste disposal regulations. Avoid release to the environment.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling

**Handling and Storage:** Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke in work areas. Use adequate ventilation to minimize exposure. Wash hands, face and other potentially exposed areas immediately after handling this material. Remove contaminated clothing prior to entering eating areas. Clean protective equipment thoroughly after each use. Store in a well ventilated area.



# Corlanor® Safety Data Sheet

Revision Number: 6

Date Issued 17-Mar-2026

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

**Occupational Exposure Limit:** Please refer to Section 11 for more information. No exposure guidelines established by ACGIH, NIOSH or OSHA. Amgen recommends an occupational exposure limit (OEL) of 7 µg/m<sup>3</sup> as an 8-hour time weighted average over a 40-hour work week. The OEL is designed as an acceptable airborne concentration of a substance for which it is believed that workers may be repeatedly exposed day after day without adverse health effects. Ivabradine has been classified per Amgen's Hazard Classification System as an Occupational Exposure Band 4 compound (5 µg/m<sup>3</sup> - 20 µg/m<sup>3</sup>) with the following suffixes: A (acute oral toxicity) R (reproductive and/or developmental effects), Specific Target Organ Toxicity - Repeated Exposure (STOT-RE) Heart

**Engineering Controls:** When practicable, handle material in enclosed processes or in processes with effective local exhaust ventilation or within a chemical hood.

### 8.2 Exposure controls

#### Personal Protective Equipment

**Eye/face Protection:** Wear safety glasses with side shields, chemical splash goggles, or safety glasses with side shields and a full-face shield to prevent contact with eyes. The choice of protection should be based on the job activity and potential for exposure to the eyes and face.

**Skin Protection:** Use gloves or other appropriate personal protective equipment if skin contact with formulation is possible. Wear lab coat or other protective over garment if splashing is possible. The choice of protection should be based on the job activity and potential for skin contact.

**Respiratory Protection:** When possible, handle material in enclosed processes or containers. If it is properly handled with effective local exhaust ventilation or containment, respiratory protection may not be needed. For procedures involving larger quantities or dust/aerosol generating procedures such as weighing or a large transfer of liquids, an air-purifying respirator with NIOSH approval for dusts and mists may be needed. The choice of protection should be based on the job activity and the potential for exposure.

**Other:** Wash hands, face and other potentially exposed areas after handling material (especially before eating, drinking or smoking). Clean protective equipment thoroughly after each use.

### 8.3 Environmental exposure controls

**Environmental Exposure Controls** Avoid release to the environment.



# Corlanor® Safety Data Sheet

Revision Number: 6

Date Issued 17-Mar-2026

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	White to slightly yellow powder (tablet) or colorless liquid
<b>Molecular Weight:</b>	505.1 Dalton
<b>Odor:</b>	No information available
<b>Odor Threshold:</b>	No information available
<b>pH:</b>	No information available
<b>Melting Point:</b>	No information available
<b>Boiling point:</b>	No information available
<b>Flash Point:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Lower explosive limit:</b>	No information available
<b>Upper explosive limit:</b>	No information available
<b>Vapor Pressure:</b>	No information available
<b>Vapor Density (air = 1):</b>	No information available
<b>Relative density:</b>	No information available
<b>Water Solubility:</b>	No information available
<b>Partition Coefficient (log Kow):</b>	2.1 at pH 7.4
<b>Viscosity:</b>	No information available



# Corlanor® Safety Data Sheet

Revision Number: 6

Date Issued 17-Mar-2026

## 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	No information available
<b>10.2 Chemical stability</b>	No information available
<b>10.3 Possibility of hazardous reactions</b>	No information available
<b>10.4 Conditions to avoid</b>	This material will present an explosion and deflagration hazard risk when dispersed and ignited in air. Grounding and bonding of process equipment should be implemented. Consider inerting the process environment to mitigate an explosion hazard. High temperature process environments should be avoided to minimize the risk of a dust cloud explosion. This material is resistive and capable of accumulating a charge during process operations. It is recommended that measures are taken to reduce the rate of charge generation during transport. The rate of charge relaxation should also be increased by using proper bonding and grounding of process equipment.
<b>10.5 Incompatible materials</b>	No information available
<b>10.6 Hazardous decomposition products</b>	No information available
<b>10.7 Other information</b>	Dust Explosion Hazard Properties MIE: 3mJ < MIE < 10 mJ (Es = 7) without inductance MIT (dust cloud): 430 °C Kst: 270 bar-m/sec ± 10% Pmax: 8.3 bar ± 10% LOC: 10.5 vol % ± 1  Electrostatic Properties Volume resistivity: 4.3 x 10 <sup>16</sup> Ω-cm Calculated Dielectric Constant: 3.37 Measured Decay Time: 2523 sec Tested on the Active Pharmaceutical Ingredient.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

<b>Acute Toxicity:</b>	Ivabradine oral LD50 in rats is 840 mg/kg (GHS Category 4).
<b>Skin corrosion/irritation:</b>	Based on available data, the GHS classification criteria are not met.
<b>Serious eye damage/eye irritation:</b>	Based on available data, the GHS classification criteria are not met.
<b>Respiratory or skin sensitization:</b>	Based on available data, the GHS classification criteria are not met.
<b>Germ cell mutagenicity:</b>	Based on available data, the GHS classification criteria are not met.
<b>Carcinogenicity:</b>	Based on available data, the GHS classification criteria are not met.
<b>Reproductive toxicity:</b>	Ivabradine oral exposure to pregnant rats and rabbits resulted in embryo-fetotoxicity and teratogenicity (GHS Category 1B).
<b>STOT - single exposure:</b>	Based on available data, GHS classification is not possible.
<b>STOT - repeated exposure:</b>	Ivabradine main repeated-dose oral toxicity studies were conducted in rats and dogs and the heart was the main target organ. Focal myocardial lesion between 10-100 mg/kg/day in 90-day repeat dose studies in rats (GHS Category 2 - Heart)
<b>Aspiration Hazard:</b>	No information available



# Corlanor® Safety Data Sheet

Revision Number: 6

Date Issued 17-Mar-2026

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Ecotoxicity effects:**

- Algae Growth Inhibition test, Scenedesmus subspicatus (72 hrs) ErC50 = 14.9 mg/L
- Acute Mobilization test, Daphnia magna (48 hrs) EC50 = 88.6 mg/L
- Acute toxicity on fish, Rainbow Trout, Oncorhynchus mykiss (96 hrs) LC50 > 500 mg/L
- Reproduction test, water flea Daphnia magna (21 days) NOEC = 1.58 mg/L
- Early-life Stage Toxicity on Fish, Rainbow Trout, Oncorhynchus mykiss (64 days) NOEC = 10 mg/L
- Activated sludge test, Respiration inhibition EC50 > 1000 mg/L
- GHS Category Acute 3
- GHS Category Chronic 2

### 12.2 Persistence and degradability

**Persistence/Degradability:**

- Ready biodegradability test - Approximately 0% degradation over a 28 day test period (does not biodegrade)
- Water sediment Study - Rapid dissipation from water column:6.9 to 8.6% at day 4,76 to 90% at day 14 in sediment(DT50 sediment > 100 days). No transformation products > or = 10% or with increasing concentrations

### 12.3 Bioaccumulative potential

**Bioaccumulation/ Accumulation:**

- N-octanol:water partition coefficient (Log Kow) 2.1 at pH 7.4

### 12.4 Mobility in soil

**Mobility in Environmental Media:**

- Adsorption coefficient (log Koc) 1.34 and 4.00 at pH 1.51 and 10.58, respectively.
- Water Solubility 47 g/L

### 12.5 Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment:** Does not meet criteria of PBT or vPvB compound

### 12.6 Other adverse effects

**Other Adverse Effects:**

No information available

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Waste Disposal Method:**

Dispose of waste according to prescribed federal, state, local and competent authority guidelines.



# Corlanor® Safety Data Sheet

Revision Number: 6

Date Issued 17-Mar-2026

## 14. TRANSPORT INFORMATION

**DOT:** Not regulated by U.S. DOT, IATA, ADR, or IMDG.

## 15. REGULATORY INFORMATION

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

#### International Inventories

<b>TSCA:</b>	-
<b>EINECS/ELINCS</b>	-
<b>DSL/NDSL</b>	-
<b>PICCS:</b>	-
<b>ENCS:</b>	-
<b>CHINA:</b>	-
<b>AICS:</b>	-
<b>KECL:</b>	-

#### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances

#### State Regulations

**California Proposition 65:** This product does not contain any Proposition 65 chemicals.

### 15.2 Chemical safety assessment

No CSA has been conducted.



# Corlanor® Safety Data Sheet

Revision Number: 6

Date Issued 17-Mar-2026

## 16. OTHER INFORMATION

Revision Number: 6

To the best of our knowledge, the information provided here is accurate as of the date of the Safety Data Sheet (SDS). The information is specific to the material that is the subject of this SDS and may not be valid when this material is used in combination with any other materials or in any process. Each user should review the information provided here in the context of the user's intended manner of handling, using, processing, storing, transporting, and disposing of the material.

This information is provided without warranty or guarantee of any kind, whether express, implied or statutory, including without limitation warranty of fitness or merchantability for a particular purpose or noninfringement. No representation, warranty, or guarantee is made, and no liability is assumed, with respect to the material or the information contained in this SDS including without limitation its accuracy or completeness or the hazards of, or results obtained from, use of the material or the information contained here. Caution should be used in the handling, using, processing, storing, transporting, and disposing of the material.