

# Carvedilol impurity C

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 04/11/2025 Version: 1.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

|                |                                                                                 |
|----------------|---------------------------------------------------------------------------------|
| Product form   | : Substance                                                                     |
| Substance name | : Carvedilol impurity C                                                         |
| Chemical name  | : 1-{benzyl[2-(2-methoxyphenoxy)ethyl]amino}-3-(9H-carbazol-4-yloxy)propan-2-ol |
| EC Index-No.   | : 603-220-00-0                                                                  |
| EC-No.         | : 432-890-5                                                                     |
| CAS-No.        | : 72955-94-3                                                                    |
| Product code   | : 202500321                                                                     |

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

##### Relevant identified uses

|                              |                                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------|
| Use of the substance/mixture | : Scientific research and development<br>Technical testing and analysis<br>For professional use only |
| Function or use category     | : Laboratory chemicals                                                                               |

##### Uses advised against

|                     |                                  |
|---------------------|----------------------------------|
| Restrictions on use | : Not for food, drug or home use |
|---------------------|----------------------------------|

#### 1.3. Details of the supplier of the safety data sheet

European Directorate for the Quality of Medicines & Healthcare  
EDQM, Council of Europe  
7, Allée Kastner, CS30026  
F 67081 Strasbourg  
France  
T +33(0)388412035, F +33(0)388412771  
[sds@edqm.eu](mailto:sds@edqm.eu), [www.edqm.eu](http://www.edqm.eu)

#### 1.4. Emergency telephone number

|                  |                   |
|------------------|-------------------|
| Emergency number | : +33(0)390215608 |
|------------------|-------------------|

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazardous to the aquatic environment – Chronic Hazard, H413  
Category 4  
Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

May cause long lasting harmful effects to aquatic life.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

|                                |                                                                                                                                                                                                                  |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signal word (CLP)              | : -                                                                                                                                                                                                              |
| Hazard statements (CLP)        | : H413 - May cause long lasting harmful effects to aquatic life.                                                                                                                                                 |
| Precautionary statements (CLP) | : P273 - Avoid release to the environment.<br>P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |

Labelling according to: Exemption for inner packaging where the contents do not exceed 10ml.

##### No labelling required

#### 2.3. Other hazards

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Other information : Warning - substance not yet tested completely.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

| Name                                                                          | Product identifier                                                     | %     | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------|-------|-----------------------------------------------------------------|
| 1-(benzyl[2-(2-methoxyphenoxy)ethyl]amino)-3-(9H-carbazol-4-yloxy)propan-2-ol | CAS-No.: 72955-94-3<br>EC-No.: 432-890-5<br>EC Index-No.: 603-220-00-0 | ≤ 100 | Aquatic Chronic 4, H413                                         |

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |                                                                                                                                                                |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : In all cases of doubt, or when symptoms persist, seek medical attention.                                                                                     |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Allow the victim to rest. If the person feels unwell : Get medical advice/attention.          |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.                                              |
| First-aid measures after eye contact  | : Rinse with water while holding the eyes wide open. Obtain medical attention if pain, blinking or redness persists.                                           |
| First-aid measures after ingestion    | : Rinse mouth out with water (only if the person is conscious). Never give anything by mouth to an unconscious person. Get immediate medical advice/attention. |

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

No additional information available

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                |                                                                                                                             |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media   | : Use extinguishing media appropriate for surrounding fire. Carbon dioxide. Water spray. Dry powder. Extinguishing blanket. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.                                                                                          |

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

|                                                  |                                                                                                                                |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Hazardous decomposition products in case of fire | : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases. Toxic fumes may be released. |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|

#### 5.3. Advice for firefighters

|                                |                                                                                                                                          |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Prevent fire fighting water from entering the environment.                                                                             |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

### SECTION 6: Accidental release measures

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

|                  |                                               |
|------------------|-----------------------------------------------|
| General measures | : Avoid contact with skin, eyes and clothing. |
|------------------|-----------------------------------------------|

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### For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

### For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

## 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

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

For containment : Absorb with an inert material and place in an appropriate waste disposal container.  
Methods for cleaning up : Clean contaminated surfaces with an excess of water. Clean with the help of detergents.

## 6.4. Reference to other sections

See Section 13 for disposal information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid all unnecessary exposure. Ensure good ventilation of the work station.  
Hygiene measures : Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash hands before work breaks and after finishing work.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Keep away from heat and direct sunlight.  
Packaging materials : Keep in original containers.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

#### Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station. Both local exhaust and general room ventilation are usually required. Material should be handled in a laboratory hood whenever possible.

#### Personal protection equipment

##### Eye and face protection

###### Eye protection:

Wear eye protection. Safety glasses with side shields. (EN 166)

##### Skin protection

###### Skin and body protection:

Wear suitable protective clothing. Laboratory use : Lab coat. (EN 13034)

###### Hand protection:

Wear suitable gloves. Chemically resistant protective gloves. (EN 374)

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### Respiratory protection

#### Respiratory protection:

In case of dust formation use respirator with filter: P3

## SECTION 9: Physical and chemical properties

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

|                                                 |                  |
|-------------------------------------------------|------------------|
| Physical state                                  | : Solid          |
| Colour                                          | : Not available  |
| Molecular mass                                  | : 469,6 g/mol    |
| Odour                                           | : Not available  |
| Odour threshold                                 | : Not available  |
| Melting point                                   | : Not available  |
| Freezing point                                  | : Not available  |
| Boiling point                                   | : Not available  |
| Flammability                                    | : Not available  |
| Lower explosion limit                           | : Not applicable |
| Upper explosion limit                           | : Not applicable |
| Flash point                                     | : Not applicable |
| Auto-ignition temperature                       | : Not applicable |
| Decomposition temperature                       | : Not available  |
| pH                                              | : Not available  |
| pH solution                                     | : Not available  |
| Viscosity, kinematic                            | : Not applicable |
| Solubility                                      | : Not available  |
| Partition coefficient n-octanol/water (Log Kow) | : Not available  |
| Vapour pressure                                 | : Not available  |
| Vapour pressure at 50°C                         | : Not available  |
| Density                                         | : Not available  |
| Relative density                                | : Not available  |
| Relative vapour density at 20°C                 | : Not applicable |
| Particle size                                   | : Not available  |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

No additional information available

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

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### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

|                                   |                                 |
|-----------------------------------|---------------------------------|
| Acute toxicity (oral)             | : Not classified (Lack of data) |
| Acute toxicity (dermal)           | : Not classified (Lack of data) |
| Acute toxicity (inhalation)       | : Not classified (Lack of data) |
| Skin corrosion/irritation         | : Not classified (Lack of data) |
| Serious eye damage/irritation     | : Not classified (Lack of data) |
| Respiratory or skin sensitisation | : Not classified (Lack of data) |
| Germ cell mutagenicity            | : Not classified (Lack of data) |
| Carcinogenicity                   | : Not classified (Lack of data) |
| Reproductive toxicity             | : Not classified (Lack of data) |
| STOT-single exposure              | : Not classified (Lack of data) |
| STOT-repeated exposure            | : Not classified (Lack of data) |
| Aspiration hazard                 | : Not classified (Lack of data) |

#### 11.2. Information on other hazards

No additional information available

### SECTION 12: Ecological information

#### 12.1. Toxicity

|                                                           |                                                           |
|-----------------------------------------------------------|-----------------------------------------------------------|
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified (Lack of data)                           |
| Hazardous to the aquatic environment, long-term (chronic) | : May cause long lasting harmful effects to aquatic life. |

#### 12.2. Persistence and degradability

##### 1-{benzyl[2-(2-methoxyphenoxy)ethyl]amino}-3-(9H-carbazol-4-yloxy)propan-2-ol (72955-94-3)

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

No additional information available

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### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

| ADR                                     | IMDG          | IATA          |
|-----------------------------------------|---------------|---------------|
| <b>14.1. UN number or ID number</b>     |               |               |
| Not regulated for transport             |               |               |
| <b>14.2. UN proper shipping name</b>    |               |               |
| Not regulated                           | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |
| Not regulated                           | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |
| Not regulated                           | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |
| Not regulated                           | Not regulated | Not regulated |
| No supplementary information available  |               |               |

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

### SECTION 15: Regulatory information

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

##### EU-Regulations

##### REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

##### REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

##### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

##### Council Regulation (EC) for the control of dual-use items

Not listed on the COUNCIL REGULATION (EC) of dual-use items.

##### Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

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### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

### Full text of H- and EUH-statements:

|                   |                                                                   |
|-------------------|-------------------------------------------------------------------|
| Aquatic Chronic 4 | Hazardous to the aquatic environment – Chronic Hazard, Category 4 |
| H413              | May cause long lasting harmful effects to aquatic life.           |

Safety Data Sheet (SDS), EU

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