

TCI AMERICA SAFETY DATA SHEET

Revision number: 2 Revision date: 10/06/2014

1. IDENTIFICATION

Product name: Carvedilol Product code: C2260

Product use: For laboratory research purposes. **Restrictions on use:** Not for drug or household use.

Company: TCI America

9211 N. Harborgate Street Portland, OR 97203 U.S.A.

Telephone:

+1-800-423-8616 / +1-503-283-1681

Fax:

+1-888-520-1075 / +1-503-283-1987

e-mail:

sales-US@TClchemicals.com www.TClchemicals.com

Emergency telephone number:

Chemical Emergencies:

TCI America (8:00am - 5:00pm) PST

+1-503-286-7624

Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International)

Responsible department: TCI America

Environmental Health Safety and Security

+1-503-286-7624

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Aquatic Hazard (Acute) [Category 2]

Aquatic Hazard (Long-Term) [Category 2]

Signal word: None

Hazard Statement(s): Toxic to aquatic life

Toxic to aquatic life with long lasting effects

Pictogram(s) or Symbol(s):



Precautionary Statement(s):

 [Prevention]
 None

 [Response]
 None

 [Storage]
 None

 [Disposal]
 None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: 1-(9H-Carbazol-4-yloxy)-3-[[2-(2-methoxyphenoxy)ethyl]amino]-2-propanol

4. FIRST-AID MEASURES

Carvedilol TCI AMERICA Page 2 of 5

4. FIRST-AID MEASURES

Inhalation: Call emergency medical service. Move victim to fresh air. Give artificial respiration if victim is not breathing.

Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to

supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to

protect themselves.

Skin contact: Call a poison center or doctor if you feel unwell. In case of contact with substance, immediately flush skin

with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that medical

personnel are aware of the material(s) involved and take precautions to protect themselves.

Eye contact: In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye

irritation persists get medical advice/attention. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take

supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to

precautions to protect themselves.

Ingestion:

If swallowed, seek medical advice immediately and show the container or label. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and

protect themselves.

Symptoms/effects:

Acute: No data available Delayed: No data available

Immediate medical attention: If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the

injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, CO₂, sand, earth, water spray or regular foam Consult with local fire authorities before

attempting large scale fire fighting operations.

Specific hazards arising from the chemical

Hazardous combustion products: These products include: Carbon oxides Nitrogen oxides
Other specific hazards: Closed containers may explode from heat of a fire.

Special precautions for fire-fighters:

Dike fire-control water for later disposal; do not scatter the material. Containers may explode when heated. Move containers from fire area if you can do it without risk.

Special protective equipment for fire-fighters:

Wear positive pressure self-contained breathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch

damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation.

Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Personal protective equipment: Safety glasses. Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or

equivalent. Wear protective gloves (nitrile).

Emergency procedures: Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the

area, and excercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or

confined areas; dike if needed.

Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. Dike far ahead of spill; use dry sand to contain the flow of material.

Environmental precautions:

Environmental hazard. Do not let product enter drains. Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid inhalation of vapor or mist. Avoid contact with skin and eyes. Good general ventilation should be sufficient to control airborne levels. Keep container dry. Handle and open container with care. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink, or smoke. Keep away from sources of ignition.

Carvedilol **TCI AMERICA** Page 3 of 5

7. HANDLING AND STORAGE

Keep only in the original container in a cool well-ventilated place. Keep away from incompatibles. Conditions for safe storage:

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid

prolonged storage periods.

Store away from oxidizing agents Storage incompatibilities:

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: No data available

Appropriate engineering controls:

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

Personal protective equipment

Respiratory protection: Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.

Wear protective gloves. Hand protection:

Eye protection: Safety glasses. Skin and body protection: Lab coat.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C):

Crystal - Powder Form: White - Very pale yellow Color: No data available Odor: Odor threshold: No data available

Melting point/freezing point: 117°C (243°F) Boiling point/range: No data available **Decomposition temperature:** No data available No data available Relative density: **Kinematic Viscosity:** No data available

Partition coefficient: 4.19

n-octanol/water (log Pow)

pH: No data available Vapor pressure: No data available No data available Vapor density: No data available **Dynamic Viscosity:**

> **Evaporation rate:** (Butyl Acetate = 1)

No data available

Flash point: No data available Autoignition temperature: No data available

Flammability or explosive limits: Flammability (solid, gas): No data available Lower: No data available

Upper: No data available

Solubility(ies):

Water: Insoluble

Very soluble: Dimethyl sulfoxide(DMSO) Soluble: Methanol, Methylene chloride Slightly soluble: Ether, Ethanol, Isopropanol

10. STABILITY AND REACTIVITY

Reactivity: Not Available.

Chemical Stability: Stable under recommended storage conditions. (See Section 7)

Possibility of Hazardous Reactions: No hazardous reactivity has been reported.

Conditions to avoid: Avoid excessive heat and light. Incompatible materials: Strong oxidizing agents **Hazardous Decomposition Products:** No data available

11. TOXICOLOGICAL INFORMATION

RTECS Number: UA8670000

Carvedilol **TCI AMERICA** Page 4 of 5

Acute Toxicity:

ivn-rat LD50:25 mg/kg ipr-rat LD50:769 mg/kg

orl-rat LDLo:8 g/kg

Skin corrosion/irritation:

No data available

Serious eye damage/irritation:

No data available

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

No data available

Carcinogenicity:

No data available

IARC: NTP: No data available No data available OSHA: No data available

Reproductive toxicity:

orl-rat TDLo:36 g/kg(9W male/2W pre-3W post) orl-rbt TDLo:975 mg/kg(7-19D preg)

Routes of Exposure: Inhalation, Eye contact, Ingestion.

Symptoms related to exposure:

No specific information is available in our data base regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound.

Potential Health Effects:

No specific information available; skin and eye contact may result in irriatation. May be harmful if inhaled or ingested.

Target organ(s): No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available Fish: No data available Crustacea: Algae: No data available

Persistence and degradability: No data available Bioaccumulative potential (BCF): No data available Mobillity in soil: No data available 4.19

Partition coefficient: n-octanol/water (log Pow)

No data available Soil adsorption (Koc): Henry's Law: No data available

constant (PaM³/mol)

13. DISPOSAL CONSIDERATIONS

Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local Disposal of product: rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a

chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains,

water ways, or the soil.

Dispose of as unused product. Do not re-use empty containers. Disposal of container:

Other considerations: Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

DOT (US)

Carvedilol **TCI AMERICA** Page 5 of 5

14. TRANSPORT INFORMATION

UN number: **Proper Shipping Name:** Class or Division: Packing Group:

Environmentally hazardous substance, solid, 9 Miscellaneous hazardous UN3077

material n.o.s.

IATA

UN number: **Proper Shipping Name:** Class or Division: **Packing Group:** UN3077

Environmentally hazardous substance, solid, 9 Miscellaneous hazardous

material

IMDG

UN number: Class or Division: **Proper Shipping Name: Packing Group:**

UN3077 Environmentally hazardous substance, solid, 9 Miscellaneous hazardous

material

EmS number: F-A, S-F

n.o.s.

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

- (i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.
- (ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity:

SARA 313: Not Listed **SARA 302:** Not Listed

State Regulations

State Right-to-Know

Massachusetts Not Listed **New Jersey** Not Listed Pennsylvania Not Listed California Proposition 65: Not Listed

Other Information

HMIS Classification: NFPA Rating:

Health: Health: 0 Flammability: Λ Flammability: Λ Instability: Physical: 0

International Inventories

WHMIS hazard class: No data available.

16. OTHER INFORMATION

Revision date: 10/06/2014 Revision number: 2

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.