

SAFETY DATA SHEET Endothelin-1 (human, porcine)

| | | accord | ling to Regulation (EC) No. 190 | 7/2006 as amended by | y (EC) No. 1272/200 | 8 | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------|-------------------------|-------------------------------|--|--|
| | | Section 1. Ide | entification of the Substar | nce/Mixture and of | the Company/Ur | ndertaking | | |
| 1.1 | Produc Produc Synony | t Name: | 24127 Endothelin-1 (human, po ET-1; | rcine) | | | | |
| 1.2 | | | he substance or mixture a | | - | | | |
| | Relev | ant identified uses: | For research use only, ne | ot for human or vete | rinary use. | | | |
| 1.3 | Comp | of the Supplier of the pany Name: | e Safety Data Sheet: Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 | pany | | | | |
| | | site address: | www.caymanchem.com | | | | | |
| | | nation: | Cayman Chemical Comp | bany | +1 (734 | 4)971-3335 | | |
| 1.4 | - | ency telephone numb | | | | | | |
| | Emerg | gency Contact: | CHEMTREC Within USA and Canada: | | | 0)424-9300 | | |
| | | | CHEMTREC Outside US | | | 3)527-3887 | | |
| | | | Section 2. Ha | zards Identifio | cation | | | |
| 2.1 2.2 | | cation of the Substar | nce or Mixture: | | | | | |
| 2.2 | | | | | | | | |
| GHS Signal Word: None | | | | | | | | |
| | | Hazard Phrases: | | | not close;fickle.co | | | |
| Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS. | | | | | | | | |
| | GHS Precaution Phrases: | | | | | | | |
| | No phrases apply. GHS Response Phrases: No phrases apply. | | | | | | | |
| | | | | | | | | |
| | - | Storage and Disposal | Phrasos | | | | | |
| | | | Storage and Section 13 for | Disposal informatio | n | | | |
| 2.3 | | | U U | • | | piratory tract. | | |
| 2.3 Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract. Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption. | | | | | | | | |
| | | , , | lay cause eye, skin, or resp | - | - | | | |
| | | Т | o the best of our knowledge | e, the toxicological p | roperties have not | been thoroughly investigated. | | |
| | | Sectio | n 3. Composition | /Information | on Ingredie | nts | | |
| CAS RTE | # / CS # | - | Hazardous Components (Chemical Name)/ REACH Registration No. | | EC No./ EC Index No. | GHS Classification | | |
| | 399-94-7 47500 | -Cys11-V | Ser-Leucine-Met-Asp-Lys-Glu eucine-Asp-Ile-Ile-Trp-OH | 100.0 % | 687-671-9 NA | No data available. | | |
| | _ | | | | | | | |

Multi-region format



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| | | Section 4. First Aid Measures | | | |
|------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| 4.1 Description of First Aid | | | | | |
| | Measures: | | | | |
| | In Case of Inhalation: | Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention. | | | |
| | In Case of Skin Contact: | Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse. | | | |
| | In Case of Eye Contact: | Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel. | | | |
| | In Case of Ingestion: | Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel. | | | |
| | | Section 5. Fire Fighting Measures | | | |
| 5.1 | Suitable Extinguishing | Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. | | | |
| | Media: | Use water spray to cool fire-exposed containers. | | | |
| | Unsuitable Extinguishing Media: | A solid water stream may be inefficient. | | | |
| 5.2 | Flammable Properties an Hazards: | dNo data available. | | | |
| | nazarus: | No data available. | | | |
| | Flash Pt: | No data. | | | |
| | Explosive Limits: | LEL: No data. UEL: No data. | | | |
| | Autoignition Pt: | No data. | | | |
| 5.3 | - | : As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or | | | |
| 0.0 | The Fighting instructions | equivalent), and full protective gear to prevent contact with skin and eyes. | | | |
| | | Section 6. Accidental Release Measures | | | |
| 6.1 | Protective Precautions, | Avoid raising and breathing dust, and provide adequate ventilation. | | | |
| | Protective Equipment an | d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, | | | |
| | Emergency Procedures: | and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). | | | |
| 6.2 | Environmental Precautions: | Take steps to avoid release into the environment, if safe to do so. | | | |
| 6.3 | | r Contain spill and collect, as appropriate. | | | |
| | | ng Transfer to a chemical waste container for disposal in accordance with local regulations. | | | |
| | Up: | | | | |
| | | Section 7. Handling and Storage | | | |
| 7.1 | Precautions To Be Taken | Avoid breathing dust/fume/gas/mist/vapours/spray. | | | |
| | in Handling: | Avoid prolonged or repeated exposure. | | | |
| 7.2 | Precautions To Be Taken | Keep container tightly closed. | | | |
| | in Storing: | Store in accordance with information listed on the product insert. | | | |
| | Sec | tion 8. Exposure Controls/Personal Protection | | | |
| 8.1 | Exposure Parameters: | | | | |
| | | | | | |

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| | HEMICAL | | | | | | | |
|-------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| 8.2 | Exposure Controls: | | | | | | | |
| 8.2.1 | Engineering Controls | Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne | | | | | | |
| | (Ventilation etc.): | evels below recommended exposure limits. | | | | | | |
| 8.2.2 | Personal protection equipment: | | | | | | | |
| | Eye Protection: | Safety glasses | | | | | | |
| | Protective Gloves: | Compatible chemical-resistant gloves | | | | | | |
| | Other Protective Clothing: | Lab coat | | | | | | |
| | Respiratory Equipment | NIOSH approved respirator, as conditions warrant. | | | | | | |
| | (Specify Type): | | | | | | | |
| | Work/Hygienic/Maintenan Do not take internally. | | | | | | | |
| | | Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower. | | | | | | |
| | , | Wash thoroughly after handling. | | | | | | |
| | No data available. | | | | | | | |
| | | ation 0 Devoiced and Chamical Dranartica | | | | | | |
| | | ction 9. Physical and Chemical Properties | | | | | | |
| 9.1 | | cal and Chemical Properties | | | | | | |
| | Physical States: | []Gas []Liquid [X]Solid | | | | | | |
| | Appearance and Odor: | A lyophilized powder | | | | | | |
| | pH: | No data. | | | | | | |
| | Melting Point: | No data. | | | | | | |
| | Boiling Point: | No data. | | | | | | |
| | Flash Pt: | No data. | | | | | | |
| | Evaporation Rate: | No data. | | | | | | |
| | Flammability (solid, gas): | No data available. | | | | | | |
| | Explosive Limits: | LEL: No data. UEL: No data. | | | | | | |
| | Vapor Pressure (vs. Air or | mm No data. | | | | | | |
| | Hg): | | | | | | | |
| | Vapor Density (vs. Air = 1): | No data. | | | | | | |
| | Specific Gravity (Water = 1 |): No data. | | | | | | |
| | Solubility in Water: | No data. | | | | | | |
| | Solubility Notes: | ~1 mg/ml in formic acid; | | | | | | |
| | Octanol/Water Partition | No data. | | | | | | |
| | Coefficient: | | | | | | | |
| | Autoignition Pt: | No data. | | | | | | |
| | Decomposition Temperatu | re: No data. | | | | | | |
| | Viscosity: | No data. | | | | | | |
| 9.2 | Other Information | | | | | | | |
| | Percent Volatile: | No data. | | | | | | |
| | Molecular Formula & Weig | | | | | | | |
| | - | | | | | | | |
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Multi-region format



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| | | | Section 10. Stability and | Reacti | vity | | | | |
|----------------------------------------------|----------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------|----------------|------------------|---------|------|--|--|
| 10.1 | Reactivi | ty: | No data available. | | | | | | |
| 10.2 | Stability | : | Unstable [] Stable [X] | | | | | | |
| 10.3 | Stability | Note(s): | Stable if stored in accordance with information | tion listed of | on the product | insert. | | | |
| | Polymerization: | | Will occur [] Will not occur [X] | | | | | | |
| 10.4 | Conditio | ons To Avoid: | No data available. | | | | | | |
| 10.5 | Incompa | tibility - Materials | acids | | | | | | |
| | To Avoid | d: | bases | | | | | | |
| 10.6 | Hazardous Decomposition or Byproducts: | | carbon dioxide | | | | | | |
| | | | carbon monoxide nitrogen oxides sulfur oxides | | | | | | |
| | | | | | | | | | |
| | | | | Inform | ation | | | | |
| 11.1 | Informat | ion on | Section 11. Toxicological The toxicological effects of this product ha | | | udied | | | |
| | | gical Effects: | The toxicological enects of this product ha | | in thoroughly st | duicu. | | | |
| CAS | | - I | ponents (Chemical Name) | NTP | IARC | ACGIH | OSHA | | |
| | # 99-94-7 | | -Ser-Ser-Leucine-Met-Asp-Lys-Glu-Cys11 | | | | _ | | |
| 1173 | 99-94-7 | | s15-His-Leucine-Asp-Ile-Ile-Trp-OH | n.a. | n.a. | n.a. | n.a. | | |
| | | | Section 12. Ecological Ir | format | ion | | | | |
| 12.1 | Toxicity | : | Avoid release into the environment. | | | | | | |
| | | Runoff from fire control or dilution water may cause pollution. | | | | | | | |
| 12.2 | Persiste | nce and | No data available. | | | | | | |
| Degradability: | | | | | | | | | |
| 12.3 | Bioaccu | mulative | No data available. | | | | | | |
| | Potential: | | | | | | | | |
| 12.4 | Mobility | in Soil: | No data available. | | | | | | |
| 12.5 Results of PBT and vPvB No data availab | | | No data available. | | | | | | |
| | assessm | nent: | | | | | | | |
| 12.6 | Other ad | lverse effects: | No data available. | | | | | | |
| | | | Section 13. Disposal Con | siderat | ions | | | | |
| 13.1 | Waste D | isposal Method: | Dispose in accordance with local, state, an | d federal r | egulations. | | | | |
| | | | Section 14. Transport Ir | nformat | ion | | | | |
| 14.1 | LAND T | RANSPORT (US I | DOT): | | | | | | |
| | - | r Shipping Name: | Not dangerous goods. | | | | | | |
| | OT Hazar | | | | | | | | |
| U | N/NA Nun | nber: | | | | | | | |
| 14.1 | | RANSPORT (Euro | | | | | | | |
| | | hipping Name: | Not dangerous goods. | | | | | | |
| - | N Number | | | | | | | | |
| H | azard Cla | SS: | | | | | | | |
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14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name:

Not dangerous goods.

Additional Transport

Transport in accordance with local, state, and federal regulations.

Information:

Section 15. Regulatory Information

| CAS # | Hazardous Com | ponents (Chemical Name) | S. 302 (EHS) | S. 304 RQ | S. 313 (TRI) | |
|-----------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-----------|--------------|--|
| 117399-94-7 | Glu-Cys11-V | 3-Ser-Ser-Leucine-Met-Asp-Lys- 5-His-Leucine-Asp-Ile-Ile-Trp-OH 1->15 | No | No | No | |
| CAS # Hazardous Com | | ponents (Chemical Name) | Other US EPA or State Lists | | | |
| 117399-94-7 | Glu-Cys11-V | 3-Ser-Ser-Leucine-Met-Asp-Lys- 5-His-Leucine-Asp-Ile-Ile-Trp-OH 1->15 | CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No | | | |
| Regulatory Information Statement: | | This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) | | | | |
| | | No.1272/2008. | | | | |
| | | Section 16. Oth | er Informatio | on | | |
| Revision Date: | | 01/21/2018 | | | | |
| Additional Info This Product: | ormation About | No data available. | | | | |
| Company Policy or Disclaimer: | | DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. | | | | |