

# Heparin Bestarose HP

## Chemical Safety Data Sheet(MSDS)

### 1、Chemical name and manufacturer information

|                   |  |
|-------------------|--|
| Chemical name     | Heparin Bestarose HP   |
| Company           | Bestchrom (Shanghai) Biosciences Ltd.                                    |
| Address           | Room 401, Floor 4, Buliding 8, 200 Newton Road, Pudong<br>Shanghai China |
| Tel               | 86-021-58953301  |
| Fax               | 86-021-50720270  |
| Email             | <a href="mailto:info@bestchrom.com">info@bestchrom.com</a>               |
| Compilation basis | GB/T 16483-2008  |
| Effective Date    | Dec.5,2022   |

### 2、Hazards identification

|                                   |  |
|-----------------------------------|--|
| Classification of dangerous goods | Not a hazardous substance or mixrure GHS label elements,including precautionary statements.  |
| Pictogram                         | No   |
| Signal word                       | No   |
| Hazard statement (s)              | No   |
| Measures                          | If swallowed:If you feel unwell, see a doctor.<br>In case of skin contact:Wash off with soap and plenty of water.<br>In case of eye contact:Rinse thoroughly with plenty of water for 15 minutes.<br>If skin irritation:see a doctor.<br>If the eye irritation:see a doctor. |
| Storage                           | Prevent the sun.Stored in ventilated place.  |

### 3、Composition/Information on Ingredients

| <i>Chemical composition</i> | Percentage (%) | CAS No    | EC No     |
|-----------------------------|----------------|-----------|-----------|
| Heparin Bestarose HP        | 80             | 9002-18-0 | 232-658-1 |
| 2%Benzyl alcohol            | 20             | 100-51-6  | 202-859-9 |

### 4、First-aid Measures

|                                   |  |
|-----------------------------------|--|
| Description of first aid measures |  |
| Inhaled                           | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.                          |
| Skin contact                      | If in contact with skin, immediately flush skin with soap and copious amounts of water. Consult a doctor if irritant case.               |
| Eye contact                       | If in contact with eye, immediately flush eyes with copious amounts of water for at least 15 minutes. Consult a doctor if irritant case. |
| If swallowed                      | Never give anything by mouth to an unconscious person. Rinse   |

|  |   |
|--|---|
|  | mouth with water. Vomiting, gastric lavage immediately and obtain medical attention.                                      |
| Most important symptoms and effects, both acute and delayed                | To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. |
| Indication of any immediate medical attention and special treatment needed | No  |

## 5、 Fire Fight Measures

|                              |  |
|------------------------------|--|
| Hazard characteristics       | No   |
| Suitable extinguishing media | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Advice for firefighters      | Wear self contained breathing apparatus for fire fighting if necessary.  |

## 6、 Accidental Release Measures

|   |   |
|---|---|
| Personal precautions, protective equipment and emergency procedures | Use personal protective equipment. Avoid breathing vapors, mist or gas.   |
| Environmental precautions   | Prevent run off into drains.  |
| Methods and materials for containment and cleaning up               | Absorb spill with dry sand, earth, inert material or vermiculite. Deposited into the appropriate and closed container for disposal. |

## 7、 Handling and Storage

|                               |   |
|-------------------------------|---|
| Precautions for safe handling | Operating personnel should be trained, follow the operating rules. Provide appropriate exhaust ventilation. |
| Conditions for safe storage   | Store in cool place. Keep container tightly closed in a dry and well-ventilated place.                      |

## 8、 Exposure Control / Personal protection

|                                 |   |
|---------------------------------|---|
| Maximum allowable concentration | Not established.  |
| Monitoring method               | None  |
| Engineering control             | None  |
| Respiratory protection          | Wear masks  |
| Eye protection                  | Wear safety glasses   |
| Body protection                 | Wear work clothes   |
| Hand protection                 | Handle with gloves  |
| Other protective                | No smoking, eating and drinking in the work. After bathing, dressing. |

## 9、Physical and Chemical Properties

|                                      |                              |
|--------------------------------------|------------------------------|
| Appearance                           | White liquid                 |
| Odour                                | Little odor                  |
| Melting point (°C)                   | No data available            |
| Viscosity (20°C) (MPa.S)             | No data available            |
| Flash Point (close cup) (°C)         | >94                          |
| Density (20°C,g/mL)                  | No data available            |
| Vapour pressure (KPa,10°C)           | No data available            |
| Vapour density                       | No data available            |
| Critical temperature (°C)            | No data available            |
| Critical pressure (MPa)              | No data available            |
| Partition coefficient noctanol/water | No data available            |
| Autoignition temperature (°C)        | No data available            |
| Decomposition temperature (°C)       | No data available            |
| Heat of combustion (KJ/mol)          | No data available            |
| Upper explosive limit% (V/V)         | No data available            |
| Lower explosive limit% (V/V)         | No data available            |
| Water solubility                     | Partially insoluble in water |

## 10、Stability and Reactivity

|                                    |                   |
|------------------------------------|-------------------|
| Reactivity                         | No data available |
| Chemical stability                 | No data available |
| Possibility of hazardous reactions | No data available |
| Conditions to avoid                | No data available |
| Incompatible Materials             | No data available |
| Hazardous decomposition products   | No data available |

## 11、Toxicological Information

|  |   |
|--|---|
| Acute toxicity                                     | LD <sub>50</sub> Oral-rat: No data available<br>LC <sub>50</sub> inhalation-rat: No data available  |
| Skin corrosion/irritation                          | No data available   |
| Serious eye damage/eye irritation                  | No data available   |
| Respiratory or skin sensitization                  | No data available   |
| Germ cell mutagenicity                             | No data available   |
| Carcinogenicity                                    | No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| Reproductive toxicity                              | No data available   |
| Specific target organ toxicity (single exposure)   | No data available   |
| Specific target organ toxicity (repeated exposure) | No data available   |
| Aspiration hazard                                  | No data available   |
| Potential health effects                           | No data available   |

## 12、 Ecological Information

|                               |                   |
|-------------------------------|-------------------|
| Eco-toxicity                  | No data available |
| Persistence and degradability | No data available |
| Bioaccumulative potential     | No data available |
| Mobility in soil              | No data available |
| Other adverse effects         | No data available |

## 13、 Disposal Consideration

|                         |  |
|-------------------------|--|
| Waste nature            | Not in the scope of the “State Hazardous Wastes List”.   |
| Waste treatment methods | Disposal before should refer to the local environmental protection department of the relevant provisions. Suggest to the qualified chemical waste management disposal. |

## 14、 Transport Information

|                                |  |
|--------------------------------|--|
| UN No                          | None   |
| Packing mark                   | None   |
| Packing category               | None   |
| Packing method                 | None   |
| Marine pollutant               | No   |
| The user’s special precautions | Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency treatment equipment for leakage. |

## 15、 Regulatory Information

National law and rule of China:

Chromatography media is uncatalogued in: Inventory of existing chemical substances in China. List of hazardous chemical materials.Occupational exposure limits for hazardous agents in the workplace(Chemical hazardous agents).Frequently used by classification and marking of hazardous chemicals. This SDS conforms to the following standards and regulations: GB 16483-2008,GB 13690-2009,GB 6944-2012,GB/T 15098-2008,GB18218-2018,GB 15258-2009,GB 190-2009,GB/T 191-2008,GB 12268-2012Rules of transportation of dangerous goods: China ministry of transportation. Regulations on the control over safety of dangerous chemicals(China)、 Recommendations on the transport of dangerous goods(UN RTDG).

## 16、 Other Information

Compiling department: Bestchrom (Shanghai) Biosciences Ltd.----QA

Modification note: The second revision

Reference:UN TRANSPORT OF DANGEROUS GOODS Model Regulations

UN Globally Harmonizad System Of Classification And Labelling Of Chemicals(GHS) etc.

Declaration: This manual is prepared in accordance with the standard requirements of GB/T 16483-2008 "Regulations for preparation of safety technical instruction of chemical products" (equivalent to ISO 11014:2009) in our best knowledge. The data information in clauses 9~12 are the corresponding data of anhydrous ethanol, so it is only for reference. All materials have unknown hazards. The consignee of this product must formulate safe operation procedures according to the requirements of the MSDS and the actual situation of the site, and operate with caution. Bestchrom is not responsible for the damage caused by handling and contact with the above products.