

# Heparin Bestarose FF

## Chemical Safety Data Sheet(MSDS)

### 1、 Chemical name and manufacturer information

Chemical name	Heparin Bestarose FF
Company	Bestchrom (Shanghai) Biosciences Ltd.
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Compilation basis	GB/T 16483-2008
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### 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. In case of skin contact:Wash off with soap and plenty of water. In case of eye contact:Rinse thoroughly with plenty of water for 15 minutes. If skin irritation:see a doctor. 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 FF	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

Most important symptoms and effects, both acute and delayed	mouth with water. Vomiting, gastric lavage immediately and obtain medical attention.
Indication of any immediate medical attention and special treatment needed	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
	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 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 Harmonized 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.