



## 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

### 1.1. Details of the supplier

|                         |                                                                               |
|-------------------------|-------------------------------------------------------------------------------|
| Commercial Product Name | <b>Bioactive HD 100</b>                                                       |
| Company                 | PuriPharm Co., Ltd.                                                           |
| Address                 | 7 <sup>th</sup> Floor, 6E Building, NO 1366 Hongfeng Road, Huzhou<br>Zhejiang |
| Telephone               | 0572-2717806                                                                  |
| E-mail address          | yzm@puripharm.com                                                             |

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

|                              |                     |
|------------------------------|---------------------|
| Use of the Substance/Mixture | Cosmetic ingredient |
|------------------------------|---------------------|

## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

|                                                                       |                                            |
|-----------------------------------------------------------------------|--------------------------------------------|
| Classification according to Regulation (EC) No 1272/2008              | Acute toxicity, Oral (Category 4),<br>H302 |
| Classification according to EU Directives 67/548/EEC or<br>1999/45/EC | Xn Harmful R22                             |

### 2.2. Label elements

Labelling according Regulation (EC) No 1272/2008



|                            |         |
|----------------------------|---------|
| Signal word                | Warning |
| Hazard statement(s)        | H302    |
| Precautionary statement(s) | none    |
| Supplemental Hazard        | none    |

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

|           |                          |
|-----------|--------------------------|
| INCI Name | HEXAMIDINE DIISETHIONATE |
| CAS#      | 659-40-5                 |

## 4. FIRST AID MEASURES

|                |                                                                                       |
|----------------|---------------------------------------------------------------------------------------|
| General advice | Move out of dangerous area.<br>Never give anything by mouth to an unconscious person. |
| Inhalation     | Move to fresh air.                                                                    |



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|              |                                                                                                                                                                                                                                               |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Skin contact | Take off all contaminated clothing immediately. Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.                                                                             |
| Eye contact  | Protect unharmed eye. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Remove contact lenses. |
| Ingestion    | Clean mouth with water and drink afterwards plenty of water. Prevent vomiting if possible. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person.              |

## 5. FIREFIGHTING MEASURES

|                                                                |                                                                                                         |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                                   | Foam, extinguishing powder, carbon dioxide, water spray jet                                             |
| Extinguishing media which shall not be used for safety reasons | High volume water jet                                                                                   |
| Specific hazards during firefighting                           | Do not use a solid water stream as it may scatter and spread fire                                       |
| Special protective equipment and precautions for fire-fighters | In the event of fire, wear self-contained breathing apparatus                                           |
| Further information                                            | In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers |

## 6. ACCIDENTAL RELEASE MEASURES

|                                  |                                                               |
|----------------------------------|---------------------------------------------------------------|
| Personal precautions             | Dust mask. Avoid contact with skin and eyes.                  |
| Environmental precautions        | Do not empty into drains / surface water / ground water.      |
| Methods for cleaning and take-up | Remove mechanically. Rinse away residue with plenty of water. |

## 7. HANDLING AND STORAGE

Use only in well-ventilated areas. Handle in accordance with good industrial hygiene and safety practice. For industrial use only. Keep containers tightly closed in a dry, cool and well ventilated place. Keep away from heat and flame.



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

|                          |                                                                     |
|--------------------------|---------------------------------------------------------------------|
| Respiratory protection   | No personal respiratory protective equipment normally required      |
| Hand protection          | Wear chemicals-resistant gloves.                                    |
| Eye protection           | Chemical resistant goggles must be worn.                            |
| Shin and body protection | Lightweight protective clothing                                     |
| Hygiene measures         | Wash hands before breaks and immediately after handling the product |
| Protective measures      | When using, do not eat, drink or smoke                              |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

### Appearance

|                                                            |                       |
|------------------------------------------------------------|-----------------------|
| Form                                                       | Powder                |
| Color                                                      | White to grayish      |
| Odor                                                       | Little intrinsic odor |
| Melting point                                              | 215 °C                |
| Solubility (qualitative)<br>(20 °C; Solvent: Water)        | partially soluble     |
| Solubility (qualitative)<br>(100 °C; Solvent: Water)       | largely soluble       |
| Solubility (qualitative)<br>(Solvent: Acetone, chloroform) | Insoluble             |

## 10. STABILITY AND REACTIVITY

|                                    |                                                            |
|------------------------------------|------------------------------------------------------------|
| Reactivity                         | Metal-ions, peroxides                                      |
| Chemical stability                 | Reaction with oxidants                                     |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use |
| Conditions to avoid                | Reaction with oxidants                                     |
| Hazardous decomposition products   | No data available                                          |

## 11. TOXICOLOGICAL INFORMATION

|                     |                           |
|---------------------|---------------------------|
| Acute oral toxicity | LD50 > 300<br>≤2000 mg/kg |
|---------------------|---------------------------|

**Bioactive HD 100**

|                           |                            |
|---------------------------|----------------------------|
| Acute inhalation toxicity | No data available          |
| Acute dermal toxicity     | No data available          |
| Repeated dose toxicity    | No data available          |
| Skin irritation           | Humans: No skin irritation |
| Eye irritation            | Humans: Irritation         |

**12. ECOLOGICAL INFORMATION**

|                               |                                                                                                                                                                                                                                                                                  |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute invertebrate toxicity   | EC50: > 1 mg/l<br>≤10 mg/l                                                                                                                                                                                                                                                       |
| Persistence and degradability | The total of the organic components contained in the product achieve values below 60% BOD/COD or CO <sub>2</sub> liberation, or below 70% DOC reduction in tests for ease of degradability. Threshold values for 'readily degradable' (e.g. to OECD method 301) are not reached. |

**13. DISPOSAL CONSIDERATIONS**

|                        |                                                                                                                                                     |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Product                | Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations |
| Contaminated packaging | Empty remaining contents. Dispose of as unused product                                                                                              |

**14. TRANSPORT INFORMATION****Road transport ADR:**

|                       |                                                                                  |
|-----------------------|----------------------------------------------------------------------------------|
| Class:                | 9                                                                                |
| Packaging group:      | III                                                                              |
| Classification code:  | M7                                                                               |
| Hazard ident. number: | 90                                                                               |
| UN No.                | 3077                                                                             |
|                       | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,<br>N.O.S. (Hexamidine diisethionate) |
| Label:                | 9                                                                                |

**Railroad transport RID:**

|                       |      |
|-----------------------|------|
| Class:                | 9    |
| Packaging group:      | III  |
| Classification code:  | M7   |
| Hazard ident. number: | 90   |
| UN No.                | 3077 |



|                                    |                                                                                  |
|------------------------------------|----------------------------------------------------------------------------------|
|                                    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,<br>N.O.S. (Hexamidine diisethionate) |
| Label:                             | 9                                                                                |
| <b>Inland water transport ADN:</b> |                                                                                  |
| Class:                             | 9                                                                                |
| Packaging group:                   | III                                                                              |
| Classification code:               | M7                                                                               |
| Hazard ident. number:              | 90                                                                               |
| UN No.                             | 3077                                                                             |
|                                    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,<br>N.O.S. (Hexamidine diisethionate) |
| Label:                             | 9                                                                                |
| <b>Marine transport IMDG:</b>      |                                                                                  |
| Class:                             | 9                                                                                |
| Packaging group:                   | III                                                                              |
| Classification code:               | M7                                                                               |
| Hazard ident. number:              | 90                                                                               |
| UN No.                             | 3077                                                                             |
|                                    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,<br>N.O.S. (Hexamidine diisethionate) |
| Label:                             | 9                                                                                |
| <b>Air transport IATA:</b>         |                                                                                  |
| Class:                             | 9                                                                                |
| Packaging group:                   | III                                                                              |
| Classification code:               | M7                                                                               |
| Hazard ident. number:              | 90                                                                               |
| UN No.                             | 3077                                                                             |
|                                    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,<br>N.O.S. (Hexamidine diisethionate) |
| Label:                             | 9                                                                                |

## 15. REGULATORY INFORMATION

The labeling of the product is indicated in Section 2.

## 16. OTHER INFORMATION

**Further information:**



Inform users about precautionary measures and give them individual protection equipment. This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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