

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Substance  
Trade name : LAMIVUDINE CRS  
CAS No : 134678-17-4  
Product code : Y0000425  
Other means of identification : RTECS No : UW7361333

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

##### 1.2.1. Relevant identified uses

Main use category : The product is intended for research, analysis and scientific education.  
Use of the substance/mixture : For professional use only  
Function or use category : Laboratory chemicals

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

European Directorate for the Quality of Medicines & Healthcare  
EDQM, Council of Europe  
F-67081 Strasbourg  
T +33(0)388412035 - F +33(0)388412771

#### 1.4. Emergency telephone number

Emergency number : +44(0)1235239670

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Repr. 2 H361d

Full text of H-phrases: see section 16

##### Classification according to Directive 67/548/EEC or 1999/45/EC

Repr.Cat.3; R63

Full text of R-phrases: see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS08

Signal word (CLP) : Warning  
Hazard statements (CLP) : H361d - Suspected of damaging the unborn child  
Precautionary statements (CLP) : P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P281 - Use personal protective equipment as required  
P308+P313 - IF exposed or concerned: Get medical advice/attention  
P501 - Dispose of contents/container to : Hazardous waste. Comply with applicable regulations

#### 2.3. Other hazards

Other hazards not contributing to the classification : Exposure may produce an allergic reaction.

# LAMIVUDINE CRS

## Safety Data Sheet

Safety Data Sheet in accordance with Regulation (EC) No. 1907/2006, as amended.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

| Name                             | Product identifier  | %     | Classification according to Directive 67/548/EEC |
|----------------------------------|---------------------|-------|--|
| LAMIVUDINE<br>(Main constituent) | (CAS No)134678-17-4 | ≤ 100 | Repr.Cat.3; R63                                  |

| Name                             | Product identifier  | %     | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|----------------------------------|---------------------|-------|---|
| LAMIVUDINE<br>(Main constituent) | (CAS No)134678-17-4 | ≤ 100 | Repr. 2, H361d  |

Full text of R-, H- and EUH-phrases: see section 16

#### 3.2. Mixture

Not applicable

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Move to fresh air in case of accidental inhalation. Assure fresh air breathing.  
First-aid measures after skin contact : Rinse skin with water/shower.  
First-aid measures after eye contact : Rinse with water while holding the eyes wide open. Contact lenses should be removed.  
First-aid measures after ingestion : Rinse mouth out with water.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : See Heading 2.

#### 4.3. Indication of any immediate medical attention and special treatment needed

In all cases of doubt, or when symptoms persist, seek medical attention.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Small amounts: Use extinguishing media appropriate for surrounding fire. Water spray. Carbon dioxide. Dry powder. Foam. Large amounts: Not applicable.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

Precautionary measures fire : Small amounts: Use normal individual fire protective equipment. Large amounts: Not applicable.  
Firefighting instructions : Dilute with water.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid raising dust. Wear suitable protective clothing, gloves and eye or face protection. Large amounts: Not applicable.

##### 6.1.1. For non-emergency personnel

Protective equipment : See Headings 7 and 8.

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

No additional information available

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Ensure waste is collected and contained. Clean thoroughly. Clean with water.

#### 6.4. Reference to other sections

No additional information available

# LAMIVUDINE CRS

## Safety Data Sheet

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

|                                   |  |
|-----------------------------------|--|
| Additional hazards when processed | : Small amounts: See Heading 1. When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. |
| Precautions for safe handling     | : Handle and open container with care. See Heading 8.  |
| Hygiene measures                  | : Handle in accordance with good industrial hygiene and safety procedures.   |

#### 7.2. Conditions for safe storage, including any incompatibilities

|                       |  |
|-----------------------|--|
| Technical measures    | : Comply with applicable regulations.  |
| Storage conditions    | : To guarantee the quality and properties of the product, keep : dry, Keep in a cool, well-ventilated place away from heat. Store in original container. |
| Incompatible products | : Strong oxidizing agents.   |

#### 7.3. Specific end use(s)

See Heading 1.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

|                          |                              |
|--------------------------|------------------------------|
| Hand protection          | : Gloves.                    |
| Skin and body protection | : Lab coat.                  |
| Respiratory protection   | : Quarter mask (DIN EN 140). |

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|  |                        |
|--|------------------------|
| Physical state                             | : Solid                |
| Appearance                                 | : white. Powder.       |
| Colour                                     | : No data available    |
| Odour                                      | : No data available    |
| Odour threshold                            | : No data available    |
| pH   | : 6 - 8                |
| Relative evaporation rate (butylacetate=1) | : No data available    |
| Melting point                              | : 178 - 182 °C         |
| Freezing point                             | : No data available    |
| Boiling point                              | : No data available    |
| Flash point                                | : No data available    |
| Self ignition temperature                  | : No data available    |
| Decomposition temperature                  | : No data available    |
| Flammability (solid, gas)                  | : No data available    |
| Vapour pressure                            | : No data available    |
| Relative vapour density at 20 °C           | : No data available    |
| Relative density                           | : No data available    |
| Solubility                                 | : Water: $\geq 1$ mg/l |
| Log Pow                                    | : -0,7 at 20°C         |
| Log Kow                                    | : No data available    |
| Viscosity, kinematic                       | : No data available    |
| Viscosity, dynamic                         | : No data available    |
| Explosive properties                       | : No data available    |
| Oxidising properties                       | : No data available    |
| Explosive limits                           | : No data available    |

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions.

# LAMIVUDINE CRS

## Safety Data Sheet

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### 10.2. Chemical stability

No additional information available

### 10.3. Possibility of hazardous reactions

Small amounts: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. Large amounts: Not applicable.

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

Small amounts: None under normal use. Large amounts: Not applicable.

### 10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes. Large amounts: Not applicable.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| LAMIVUDINE CRS(134678-17-4) |              |
|-----------------------------|--------------|
| LD50 oral rat               | > 2000 mg/kg |

Skin corrosion/irritation : Not classified  
pH: 6 - 8

Serious eye damage/irritation : Not classified  
pH: 6 - 8

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging the unborn child.

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Avoid any direct contact with the product. Small amounts: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. Large amounts: Not applicable.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Small amounts: See Heading 2. Large amounts: Not applicable.

Ecology - water : Soluble in water.

| LAMIVUDINE CRS(134678-17-4) |  |
|-----------------------------|--|
| LC50 fishes 1               | > 97,7 mg/l LC50-96 Hour - fish            |
| EC50 Daphnia 1              | > 1000 mg/l EC50 - 48 Hour - Daphnia magna |

### 12.2. Persistence and degradability

| LAMIVUDINE CRS(134678-17-4) |     |
|-----------------------------|-----|
| Biodegradation              | < 4 |

### 12.3. Bioaccumulative potential

| LAMIVUDINE CRS(134678-17-4) |              |
|-----------------------------|--------------|
| Log Pow                     | -0,7 at 20°C |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

# LAMIVUDINE CRS

## Safety Data Sheet

Safety Data Sheet in accordance with Regulation (EC) No. 1907/2006, as amended.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Regional legislation (waste) : Dispose in a safe manner in accordance with local/national regulations.

### SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

#### 14.1. UN number

No dangerous good in sense of transport regulations

#### 14.2. UN proper shipping name

Not applicable

#### 14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Other information : No supplementary information available.

#### 14.6. Special precautions for user

##### 14.6.1. Overland transport

No additional information available

##### 14.6.2. Transport by sea

No additional information available

##### 14.6.3. Air transport

No additional information available

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

##### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

Full text of R-, H- and EUH-phrases::

|         |   |
|---------|---|
| Repr. 2 | Reproductive toxicity, Category 2         |
| H361d   | Suspected of damaging the unborn child    |
| R63     | Possible risk of harm to the unborn child |

SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*