

Product Name: Zanamivir Revision Date: 5/19/2020



I. PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Product Catalog Number:

CAS Number:

Company:

Zanamivir

B2136

139110-80-8

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II. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards:

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Acute toxicity,oral(Category 4),H302 Skin corrosion/irritation(Category 2),H315 Serious eye damage/eye irritation(Category 2A),H319 Specific target organ toxicity, single exposure; Respiratory tract irritation(Category 3),H335

III. COMPOSITION/DATA ON COMPONENTS			
Formula:	C12H20N4O7		
Molecular Weight :	332.31		

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V. FIRE FIGHTING MEASURES

Conditions of flammability:

Suitable extinguishing media:

Special protective equipment for firefighters:

Hazardous combustion products:

If inhaled, remove to fresh air; if breathing is difficult, give oxygen; if breathing stops, give artificial respiration.

Flush with copious amounts of water; remove contaminated clothing and shoes; call a physician; Take victim to hospital immediately; call a physician.

Check for and remove contact lenses and flush with copious amounts of water; assure adequate flushing by separating the eyelids with fingers; call a physician.

If swallowed, wash out mouth with copious amounts of water; call a physician

Not flammable or combustible.

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

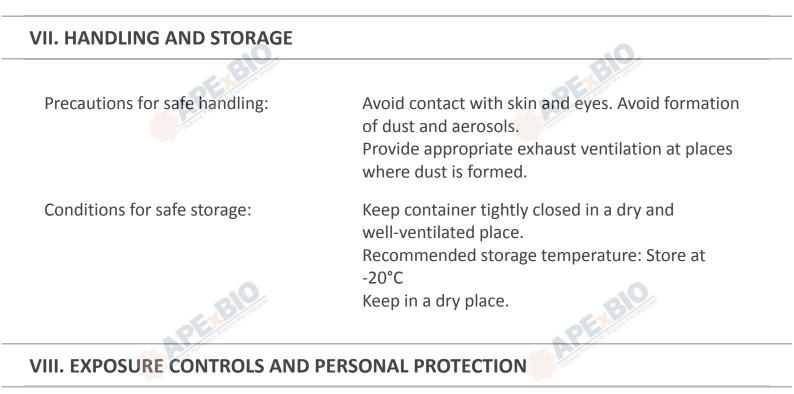
Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Sulphur oxides.

VI. ACCIDENTAL RELEASE MEASURES

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	Personal precautions:	Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas.
	Environmental precautions:	Do not let product enter drains. Prevent further leakage or spillage if safe to do so.
	Methods and materials for containment and cleaning up:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable,
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closed containers for disposal.



Personal protective equipment as follows:

Respiratory protection:



Hand protection:



Eye protection:

Contains no substances with occupational exposure limit values.

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin and body protection:



Hygiene measures:

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

General industrial hygiene practice.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

- a) Appearance
- b) Odour
- c) Odour Threshold
- d) pH
- e) Melting point/freezing point
- f) Initial boiling point and
- boiling range
- g) Flash point
- h) Evaporation rate
- i) Flammability (solid, gas)
- j) Upper/lower flammability or
- explosive limits
- k) Vapour pressure
- I) Vapour density
- m) Relative density
- n) Water solubility

No data available No data available

No data available No data available No data available No data available

No data available No data available No data available No data available

- o) Partition coefficient
- p) Auto-ignition temperature
- q) Decomposition temperature
- r) Viscosity
- s) Explosive properties
- t) Oxidizing properties

Other safety information

No data available

X. STABILITY AND REACTIVITY

Chemical stability: Possibility of hazardous reactions:

Conditions to avoid:

Materials to avoid:

Stable under recommended storage conditions.

No data available.

No data available

No data available.

Strong acids, Strong bases.

XI. TOXICOLOGICAL INFORMATION



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.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels



greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.



SARA 313 Components:

SARA 311/312 Hazards:

Massachusetts Right To Know Components:

Pennsylvania Right To Know Components:

New Jersey Right To Know Components:

California Prop. 65 Components:

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Acute Health Hazard.

No components are subject to the Massachusetts Right to Know Act.

No components are subject to the New Jersey Right to Know Act.

No components are subject to the New Jersey Right to Know Act.

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

XVI. OTHER INFORMATION

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