

Referency
MSDSANNEXIN
V/7AAD KIT-1

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### 1. COMPANY AND PRODUCT IDENTIFICATION

Product Name: ANNEXIN V AND 7-AAD APOPTOSIS DETECTION KIT

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### 2. INFORMATION ABOUT COMPONENTS

## 2.1. Description:

Annexin V phosphate buffer 0,01 M diluted, with 0,1 % sodium azide as a preservative.

Binding Buffer.

7- Aminoactinomycin D

## 2.2. hazardous ingredients:

COMPONENT	Num CAS	MOLECULAR WEIGHT	% w/v
7-AMINOACTINOMYCIN D (7-AAD)	7240-37-1	1270.43	<0,01
SODIUM AZIDE (NaN3	26628-22-8	65.0099	>0,09

Buffered aqueous solution, with components that are below the regulatory threshold limits according EC No 1272/2008

### 3. HAZARDS IDENTIFICATION

The toxicity information that follows describes the hazards associated with Sodium azide and 7-AAD. To the best of our knowledge, no other hazards are associated with this product.

Code Letter, hazard designation & symbol for 7-aminoactinomycin D. (7-AAD):



Code Letter, hazard designation & symbol for Sodium Azide:





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- Information pertaining to Sodium Azide.
- After inhalation: Remove to fresh air. If individual is not breathing, give artificial respiration and obtain medical attention.
- After skin contact: Immediately wash with copious amounts of water while removing contaminated clothing.
- After eye contact: Rinse opened eye for 15 minutes under running water and seek medical advice.
- After swallowing: Wash out mouth with water and seek medical advice immediately showing the container or label of the product.
- Information pertaining to 7-aminoactinomycin D.
- After skin contact: Immediately wash with copious amounts of water while removing contaminated clothing.
- After eye contact: Rinse opened eye for 15 minutes under running water and seek medical advice.
- After swallowing: Wash out mouth with water and seek medical advice immediately showing the container or label of the product.

#### 5. FIRE FIGHTING MEASURES

Extinguishing media:	<ul> <li>Water spray</li> <li>Carbon dioxide, dry chemical powder or appropriate foam</li> </ul>
Special firefighting procedures:	<ul> <li>Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.</li> </ul>
Unusual fire and explosions hazards:	<ul> <li>Sodium azide upon thermal decomposition may emit toxic gases, including nitrogen oxides. However, due to the composition and volume of this product, combustion products generated from it are not expected to present a significant hazard.</li> </ul>

#### 6. ACCIDENTAL RELEASE MEASURES

- Wear protective equipment.
- Absorb with liquid-binding material and placed in closed containers for disposal. Avoid generation of aerosols during clean up.
- Ventilate area and wash spill site after material pickup is complete.



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### 7. HANDLING AND STORAGE

#### 7.1 Sodium Azide

#### 7.1.1 Handling precautions

• Avoid inhaling, ingestion and contact with eyes and skin.

7.1.2 Storage:

Requirements to be met by storerooms

and receptacles:

 Information about storage in one common storage facility: No special requirements

Do not store together with oxidizing and acidic materials as well

as heavy-metal compounds.

• Further information about storage conditions: None

### 7.2 7-aminoactinomycin D:

### 7.2.1 Handling precautions.

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas.
 Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

# 7.2.2 Storage:

Store container at 2-8°. Protect from the light.

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with limit values that require monitoring at

the workplace:

The product does not contain any relevant quantities of material with critical values that have to be

monitored at the workplace.

**Engineering controls:** Use in well ventilated area.

Respiratory protection: Not required.

**Eye protection**: Safety glasses

**Body protection:** Protective work clothing; impervious gloves, such a latex or equivalent, should be worn

to prevent skin contact







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## 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 7-aminoactinomycin D.

Physical state: liquid

Colour: pink

Odourless Odourless

Change in condition Melting point: Not determined

Boling point: Not determined

Flash point: Not applicable

**Danger of explosion:** Forms very sensitive explosive metallic compounds

Vapour pressure:

Density:

Not available

Not determined

Solubility in water: Soluble

pH: Not determined

9.2 Sodium Azide

Physical state: Solid, crystalline

Colour: White

Odour: Odourless

 Change in condition
 Melting point: Not determined

Boling point: Not determined

Flash point: Not applicable

 Danger of explosion:
 Forms very sensitive explosive metallic compounds

Vapour pressure: Not available

**Density:** Not determined

Solubility in water: Soluble

**pH**: 10 at 65 g/l at 25 °C



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#### 10. STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressures

Material to be avoid Strong oxidizing agents

Metals and metallic compounds

Cyano compounds

Sodium azide forms explosive compounds with heavy metals. Repeated contact of low concentration of azide with lead and copper commonly found in pumbling drains may result in the build up of shock sensitive compounds.

Dangerous decompositions products:

Nitrogen oxides (NOx)

Additional information:

Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in metal drains.

## 11. TOXICOLOGICAL INFORMATION

Sodium Azide	
Acute toxicity for hazardous ingredients:	Oral LD50 Rat: 27 mg/Kg
	Although its concentration in this product is low, sodium azide is harmful if swallowed, inhaled or absorbed through
Potential effects of chronic exposure:	Prolonged or repeated exposure to sodium azide may result in pounding headaches, eye and nose irritation, low blood pressure, fatigue and dizziness.

7- Aminoactinomycin D		
Potencial effects of acute exposure and repeated:	It can cause irritation or burning of the skin and eyes on contact. The inhalation or ingestion of large volumes can cause burning of the mucous membrane, irritation and breathing.	
Potencial effects of chroninc exposure:	Have not been thoroughly investigated.	

### 12. ECOLOGICAL INFORMATION

Ecotoxicity:	Toxic for fish and other water organism	



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#### 13. DISPOSAL CONSIDERATIONS.

Recommendation:	Observe all state and local environmental regulations.
Uncleaned packagings:	<ul> <li>Recommendation: Disposal must be according to state and local regulations.</li> <li>Recommended cleansing agent: Water, if necessary with cleansing agents.</li> </ul>

## 14. TRANSPORT INFORMATION

RID /ADR: Non-hazardous for road transport.

IMDG: Non-hazardous for sea transport.

ICAO/IATA: Non-hazardous for air transport.

# 15. OTHER INFORMATION

The above information represents the best information currently available for us. However this reagent may present unknown hazards and should be used with caution. Independent professional opinions regarding the risk or exposure to this solution are the responsibility of the user.