

Revision

Number

4

Referency
MSDS-
ANNEXIN
V/PI KIT-3

date:

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1. COMPANY AND PRODUCT IDENTIFICATION

Product Name:	ANNEXIN V AND PROPIDIUM IODIDE APOPTOSIS DETECTION KIT
Manufacturer / Supplier:	IMMUNOSTEP, S.L. Avd. Universidad de Coimbra, s/n. Centro de Investigación del Cáncer (CIC) Campus Miguel de Unamuno 37007 Salamanca-Spain
Information relative to Technical Services:	Tfno/Fax: +34 923294827 tech@immunostep.com
Emergency Information:	+34915620420 // Instituto Nacional de Toxicología. Madrid.

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. Propidium lodide.

2.2. hazardous ingredients:

COMPONENT	Num CAS	MOLECULAR WEIGHT	% w/v
PROPIDIUM IODIDE (PI)	25535-16-4	668,39 g/mol	<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 FC No 1272/2008			

m red 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 Propidium lodide. To the best of our knowledge, no other hazards are associated with this product.

Code Letter, hazard designation $\boldsymbol{\vartheta}$ symbol for Propidium lodide:



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 Propidium lodide.

- 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

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Extinguishing media:	 Water spray Carbon dioxide, dry chemical powder or appropriate foam
Special firefighting procedures:	 Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Unusual fire and explosions hazards:	 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.

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 precautionsAvoid inhaling, ingestion and conta	ct with eyes a	nd skin.				
7.1.2 Storage:						
Requirements to be met by storer	ooms	No specia	al requirements			
 and receptacles: Information about storage in one common storage facility: 		Do not st as heavy-	ore together with o metal compounds.	xidizing and acidic ma	aterials as well	
Further information about storage of the stora	conditions:	None				
7.2 Propidium lodide:						
7.2.1 Handling precautions.						
 Use personal protective equipmen Ensure adequate ventilation. Evac 						
7.2.2 Storage:						
Store container at 2-8°. Protect from the ligh	t.					
-						
8. EXPOSURE CONTROLS AND PERSONAL	PROTECTION					

Components with limit values t the workplace:	hat require monitoring at	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.	in the second se
Respiratory protection:	Not required.	
Eye protection:	Safety glasses	
Body protection:	Protective work clothing; in to prevent skin contact	pervious gloves, such a latex or equivalent, should be worn



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9. PHYSICAL AND CHEMICAL PROPERTIES 9.1 PROPIDIUM IODIDE Physical state: Solid Colour: Red 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: Not determined 9.2 Sodium Azide Physical state: Solid, crystalline White Colour: 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 Not determined Density: Solubility in water: Soluble pH: 10 at 65 g/l at 25 °C



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 Strong oxidizing agents Metals and metallic compounds
 Cyano compounds dium azide forms explosive compounds with heavy metals. Repeated contact of low iccentration of azide with lead and copper commonly found in pumbling drains may result he build up of shock sensitive compounds.
rogen oxides (NOx)
de compounds should be flushed with large volumes of water during disposal to id deposits in metal drains.

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.		

12. ECOLOGICAL INFORMATION

Propidium Iodide		
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 volúmnes can cause burning of the mucous membrane, irritaciónen breathing.	
Potencial effects of chroninc exposure:	Powerful mutagenic agent	

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:	 Recommendation: Disposal must be according to state and local regulations. Recommended cleansing agent: Water, if necessary with cleansing agents.

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.