



MATERIAL SAFETY DATA SHEET

Reference
MSDS-
ANXVKPE+MITO/2

Revision Number
2

Last Revision date:
26/03/2020

Page number:
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SECTION 1: Identification of the substance/mixture

1.1 product identifiers

Product Name: ANNEXIN V APOPTOSIS DETECTION WITH 7 AMINOACTINOMYCIN D AND MITOSTEP KIT REAGENT FOR USE IN FLOW CYTOMETRY

REARCH No.: A registration number is not available for this substance as the substance or its uses are exempted from registration.

KIT COMPONENTS	
COMPONENT	REF.
PE Annexin V	ANXVPE-200T
7 AMINOACTINOMYCIN D	7-AAD
Annexin V Binding Buffer 10X	BB10X-50ML
Mitostep	MITO

1.2 relevant identified uses of the substance or mixture and uses advised against

Recommended use: Scientific and industrial laboratory use. For Research Use.

1.3 Details of the suppliers of the Material Safety Data Sheet

IMMUNOSTEP, S.L.

Avd. Universidad de Coimbra, s/n.
Centro de Investigación del Cáncer (CIC)
Campus Miguel de Unamuno 37007 Salamanca-Spain
Tfn/Fax: +34 923294827

Information relative to Technical Services: tech@immunostep.com

1.4 Emergency telephone number

+34917 68 98 00 // Instituto Nacional de Toxicología. Madrid

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product Description: Mixture

Classification according to EC 1272/2008 (CLP/GHS): Not classified as hazardous per EC 1272/2008 (CLP/GHS)

2.2 Label elements

- Hazard Symbol: No symbol
- Signal Word: No signal word.
- Hazard Statement: not applicable
- Precautionary Statements: not applicable
- Other hazards which do not result in GHS classification: None.

2.3 Other hazards

This product contains concentrations of azide below the hazardous level which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds. Sodium azide forms explosive compounds with heavy metals.

SECTION 3: Composition/ information on ingredients

Mixtures			
Hazardous Ingredients		Hazard Classification of Pure Ingredients	
Chemical Name	% by wt	EU 1272/2008 CLP/GHS	Note
Sodium Azide CAS 26628-22-8	<0.1	Acute Tox. Oral 2, H300 Aquatic Acute 1, H400 Aquatic Longterm 1, H410	2,8
Proclin™ 300 CAS 55965-84-9	< 0.0014	Acute Tox. 3, H331; Acute Tox. 3; H311, Acute Tox. 3,H301; Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410,	2,8
Dimethyl Sulfoxide CAS 67-68-5	-	Not classified	

2 - Substance with Community workplace exposure limits

8 - Present at concentration below the cut-off limits.

SECTION 4: First aid measures

General information: Get medical attention if symptoms occur.

- **Ingestion:** Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.



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- **Inhalation:** If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration by trained personnel and obtain medical attention immediately.
- **Skin Contact:** Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.
- **Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.

Most important symptoms and effects, both acute and delayed:

No adverse symptoms or effects have been identified.

Indication of any immediate medical attention and special treatment needed:

No data available

SECTION 5: Firefighting measures

General Fire Hazards:

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water spray to keep fire-exposed containers cool.

Extinguishing Media In case of fire:

Use carbon dioxide (CO₂), dry chemical, water spray or appropriate foam. For large fires use fire-extinguishing media appropriate for surrounding materials.

Special hazards arising from the substance or mixture Special Fire and Explosion Hazards:

No special hazards determined. Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products:

No combustion products posing significant hazards are expected from this product (an aqueous solution).

Advice for fire fighters (Protective Equipment):

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces.

Additional information:

No data available.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Contact local authorities in case of spillage to drain/aquatic environment. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.

Methods and material for containment and cleaning up:

Absorb spillage with suitable absorbent material. Prevent runoff from entering drains, sewers, or streams.

Environmental Precautions:

Do not allow the undiluted product to enter sewers/surface or ground water. As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Absorb liquid and place in container suitable for disposal. Avoid generation of aerosols during clean up. Dispose of contents/container in accordance with local regulations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use personal protective equipment as required. Universal precautions should be followed when using this product.

- Avoid inhaling, ingestion and contact with eyes and skin.
- Do not pipette by mouth.
- Do not eat, drink or smoke in areas where kit reagents or samples are handled.
- Rubber or disposable latex gloves and protective clothing should be worn while handling kit reagents or specimens.
- Avoid splashing or generation of aerosols.

7.2 Conditions for sale storage, including any incompatibilities

To maintain product quality, store according to the instructions in the product labeling. Store in a cool, dry place. Keep container closed.

7.3 Specific end use (s)

No further relevant information available.

SECTION 8: Exposure controls/ 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:

No special engineering controls are required. Use with good general ventilation.

- Eye Protection. Safety glasses should be worn to prevent eye contact. Refer to European Standard EN166 or appropriate government standards.
- Skin Protection Wear protective clothing and impervious gloves, as appropriate. Wash hands after contact.
- Respiratory Protection Under normal conditions, the use of this product should not require respiratory protection. Use in well ventilated area.

**SECTION 9: Physical and chemical properties****Appearance**

- Physical state: liquid
- Color: No data available.
- Odor: Odorless

pH: No data available.

Melting point/freezing point: No data available.

Initial boiling point and boiling range: No data available.

Flash Point: No data available.

Evaporation rate: No data available.

Flammability (Solid, Gas): Not applicable

Flammability Limits: Not applicable

Vapor pressure: No data available.

Vapor density: Not determined

Decomposition temperature: not applicable

Solubility (ies): No data available.

Viscosity: Not determined

Oxidizing Properties: Not applicable

Auto-ignition temperature: No data available.

SECTION 10: Stability and reactivity

Reactivity:

Stable under normal temperature conditions and recommended use. No further relevant information available.

Chemical Stability:

The product is stable in accordance with recommended storage conditions.

Possibility of hazardous reactions:

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

Conditions to avoid:

Avoid exposure to high temperatures or direct sunlight.

Incompatible Materials:

Metals and metallic compounds.

Hazardous Decomposition Products:

No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

SECTION 11: Toxicological information

Toxicity Data for Hazardous Ingredients

Sodium Azide

CAS 26628-22-8: Oral LD50 Rat: 27 mg/Kg. Dermal LD50 Rabbit 20 mg/kg.



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Primary Routes of Exposure:

Common routes of entry include inhalation, ingestion and eye/skin contact. Specific paths of concern for potentially infectious materials are skin puncture, contact with broken skin, contact with mucous membranes and inhalation of aerosolized material.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Short term exposure

- Potential delayed effects: Not available.
- Potential immediate effects: Not available.

Potential immediate effects

- Long term exposure: Not available.
- Potential delayed effects: Not available.

Potential chronic health effects

- **General:** No known significant effects or critical hazards.
- **Skin Corrosion/Irritation:** No known significant effects or critical hazards.
- **Serious eye damage/eye irritation:** No known significant effects or critical hazards.
- **Respiratory/skin sensitization:** No known significant effects or critical hazards.
- **Carcinogenicity:** No ingredients in this product are listed as carcinogens
- **Germ cell mutagenicity:** No data available.
- **Reproductive Toxicity:** No data available.
- **Specific target organ toxicity – single exposure:** Not classified based on available data.
- **Specific target organ toxicity – repeated exposure:** Not classified based on available data.
- **Other Information:** None known.

Numerical measures of toxicity:

Acute toxicity estimates: Not available.

Proclin™ 300

CAS 55965-84-9

Primary Routes of Exposure:

Common routes of entry include inhalation, ingestion and eye/skin contact. Specific paths of concern for potentially infectious materials are skin puncture, contact with broken skin, contact with mucous membranes and inhalation of aerosolized material.

Information on toxicological effects

Acute toxicity: Mixture, No data available

Acute toxicity: Ingredients:

Ethanediol		
Oral	LD50	> 4500 mg/kg (rat)
Dermal	LD50	> 3500 mg/kg (mouse)
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)		
Oral	LD50	53 mg/kg (rat)

- **Skin Corrosion/Irritation:** No data available.
- **Serious eye damage/eye irritation:** No known significant effects or critical hazards.
- **Respiratory/skin sensitization:** No known significant effects or critical hazards.
- **Germ cell mutagenicity:** There are no data available for the ingredients.
- **Carcinogenicity:** There are no data available for the ingredients.
- **Reproductive toxicity:** There are no data available for the ingredients.
- **Specific target organ toxicity (single exposure):** There are no data available for the ingredients.
- **Specific target organ toxicity (repeated exposure):** There are no data available for the ingredients.
- **Aspiration hazard:** There are no data available for the ingredients.

Dimethyl Sulfoxide

CAS 67-68-5

Primary Routes of Exposure:

Common routes of entry include inhalation, ingestion and eye/skin contact. Specific paths of concern for potentially infectious materials are skin puncture, contact with broken skin, contact with mucous membranes and inhalation of aerosolized material.

Information on toxicological effects

Acute toxicity: Mixture, No data available

Acute toxicity: Ingredients:

DMSO		
Oral	LD50	> 14500 mg/kg
Dermal	LD50	> 40000 mg/kg
Inhalation	LC50	> 5000 mg/l

- **Skin Corrosion/Irritation:** Mild skin irritant, Components of the product may be absorbed into the body through the skin.
- **Serious eye damage/eye irritation:** No known significant effects or critical hazards.
- **Respiratory/skin sensitization:** No known significant effects or critical hazards.
- **Germ cell mutagenicity:** There are no data available for the ingredients.
- **Carcinogenicity:** There are no data available for the ingredients.
- **Reproductive toxicity:** There are no data available for the ingredients.
- **Specific target organ toxicity (single exposure):** There are no data available for the ingredients.
- **Specific target organ toxicity (repeated exposure):** There are no data available for the ingredients.
- **Aspiration hazard:** There are no data available for the ingredients.

SECTION 12: Ecological information
Acute hazards to the aquatic environment:

No negative effects on the aquatic environment are known

Chronic hazards to the aquatic environment:

No negative effects on the aquatic environment are known

Persistence and Degradability:

Expected to be readily biodegradable

Bioaccumulative potential:

No data available

Mobility in soil:

No data available

Other adverse effects:

The product is not expected to be hazardous to the environment



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SECTION 13: Disposal considerations

General information:

Must be specially treated adhering to official regulations. This material must be disposed in accordance with all local, state and provincial regulations. Do not allow product to reach sewage system.

Uncleaned packaging:

Disposal must be according to state and local regulations.

Recommended cleaning agent: Water, if necessary with cleaning agents.

SECTION 14: Transport information

Transportation of this product is not regulated under ICAO, IATA DGR, IMDG, US DOT, European ADR and RID or Canadian TDG...

- Non-hazardous for road transport.
- Non-hazardous for sea transport.
- Non-hazardous for air transport.

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 (REACH) - Annex XIV.

List of substances subject to authorization: No ingredients listed.

Chemical safety assessment: For this product a chemical safety assessment was not carried out.

SECTION 16: 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.