

# MATERIAL SAFETY DATA SHEET ACC. TO 91/155/EEC



## Section 1.-----Identification-----

Product: human TNF-alpha Instant ELISA  
Catalog-No.: BMS223INST, BMS223INSTCE, BMS223INST-UL, BMS223INST-PL, BMS223INSTSAMPLE  
Manufacturer: Bender MedSystems GmbH  
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## Section 2.-----Composition/Information on Ingredients-----

Component	Ingredient	Concentration	Identification
Wash Buffer 20X	Proclin300	<0.01%	EC No. 223-821-4
Substrate Solution	3,3',5,5'-Tetramethylbenzidin	0,036%	CAS-No. 54827-17-7
	Ethylendiamintetraacetat	0,093%	CAS-No. 6381-92-6
Sample Diluent	Proclin300	<0.01%	EC No. 223-821-4
Stop Solution	Ortho-Phosphoric Acid	9%	CAS-No. 7664-38-2

## Section 3.-----Hazards Identification-----

N/A

## Section 4.-----First Aid Measures-----

Eyes and Skin: Flush with large amounts of water for at least 15 minutes. Wash contaminated clothes before reuse. Consult a physician if irritation persists.  
Ingestion: Flush mouth with water. Get medical attention  
Inhalation: Remove from exposure to fresh air immediately.

## Section 5.-----Fire Fighting Measures-----

Extinguishing Media: Foam, CO<sub>2</sub>, Water  
Unusual Fire and Explosion Hazards: In case of fire ortho-Phosphoric Acid may decompose into toxic fumes.

## Section 6.-----Accidental Release Measures-----

Contain spill and then clean up with copious amount of water. Avoid contact with skin and clothing. Dispose acc. to section 13.

## Section 7.-----Exposure Control/Personal Protective Measures-----

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

## Section 8.-----Handling and Storage-----

Store product and all components at -20 °C.

## Section 9.-----Physical and Chemical Properties-----

N/A

## Section 10.-----Stability and Reactivity-----

Ortho-Phosphoric Acid can react with metals and strong bases. Thermal decomposition may result in toxic fumes of phosphoroxide and/or phosphine.

## Section 11.-----Toxicological Information-----

Acute effects: May cause skin and eye irritation.  
May be harmful if absorbed through the skin.  
May cause irritations to mucous membranes and upper respiratory tract.  
May be harmful if swallowed.  
Chronic effects: Have not been thoroughly investigated.

## Section 12.-----Ecological information-----

Generally not hazardous for water. Do not dispose via sewage system.

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## **Section 13.-----Disposal guidelines-----**

Dispose all excess reagents and samples in biohazardous waste. Alternatively excess reagents and samples, as well as empty reagent containers can be autoclaved for at least one hour prior to discarding. Observe all federal, state and local environmental regulations.

## **Section 14.-----Transport information-----**

Product and all components should be transported at -20°C.

## **Section 15.-----Regulatory information and considerations-----**

Labelling: The product is not subject to identification regulations under EU Directives.  
Safety phrases: 60 – The product and its containers must be disposed as hazardous waste  
Waterhazard class: Generally not hazardous for water

## **Section 16.-----Other-----**

The above information is believed to be correct to the best of our current knowledge. Bender MedSystems GmbH does not guarantee this to be all-inclusive and shall not be held liable for any damages resulting from handling of or contact with the above product. All materials and mixtures may present unknown hazards and should be used with caution. See purchase order, packing slip, package insert, and invoice for additional terms and conditions of sale.