

## Material Safety Data Sheet

### 1. Product Identification

#### 1.1. Identification of the product:

Product Name: human Factor XII  
Product Nos.: ADG412H  
Configuration: 100 µg, liquid  
Use of Substance: For Research use only

#### 1.2. Manufacturer:

American Diagnostica GmbH  
Kaplaneigasse 35  
D-64319 Pfungstadt  
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1.3 Date of last revision: 17.02.2014

#### 1.4 Changed information

### 2. Possible Hazards

The single components do not contain hazardous substances above the limit as per REACH – Regulation 1907/2006/EC and do thus not need special labelling.

The product is of human blood/plasma origin, the source material has been found negative for HIV-1/2, HIV antigen(s), HbsAg, STS, anti-HCV, anti-HBcore and HTLV I & II. As no known test method can provide complete assurance that products derived from human specimens will not transmit HBsAg, HCV, HIV-1, HIV-2 or other blood-borne pathogens, this reagent should be handled as recommended for any potentially infectious human specimen.

#### **Eye Exposure:**

May be harmful by eye exposure.

#### **Dermal Exposure:**

May be harmful by skin absorption.

#### **Oral Exposure:**

May be harmful by ingestion.

#### **Inhalation Exposure:**

May be harmful by inhalation.

### 3. Composition and Information on Ingredients

REAGENT	CHEMICAL NAME	CAS NO.	PERCENT
human Factor XII	Factor XII	9001-30-3	0.18 %
	Sodium acetat	77-86-1	0.03 %
	Sodium chloride	7647-14-5	0.44 %
	Glycerin	56-81-5	50 %

### 4. First-aid Measures

**After inhalation:**

After inhalation, bring affected person into the fresh air at once. After respiratory arrest, perform artificial respiration and give oxygen.

**Skin contact:**

If body parts are contacted, please wash them under flowing water for at least 15 minutes and possibly consult a doctor. Change contaminated clothing and shoes.

**Eye contact:**

After eye contact, rinse thoroughly with adequate amount of water for at least 15 minutes. Keep the eye lids open during rinsing. Call a doctor.

**After swallowing:**

After swallowing, rinse the mouth with adequate amount of water, assuming the person is conscious. Call a doctor. Do not trigger vomiting.

### 5. Fire-fighting Measures

**Flammability:**

Solutions are non-flammable. Boxing, instruction papers and powdered reagents are flammable.

**Extinguishing Media:**

Use extinguishing media appropriate to the surrounding fire conditions, such as carbon dioxide, dry chemical powder or foam.

**Fire Fighting Instructions:**

Wear self-contained breathing apparatus and protective clothing

### 6. Accidental Release Measures

**Personal Precautions:**

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. In case of skin contact, flush with copious amounts of water and remove contaminated clothing.

**Methods For Cleaning Up:**

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.  
Do not empty into drains.

### 7. Handling and Storage

**Handling:**

Avoid inhalation. Avoid contact with eyes, skin and clothing.

**Storage:**

The product is stable until the expiration date stated on its labeling when stored at -20°C.

**Hygienic Practice:**

Wash hands with soap and water following use.

**8. Exposure Controls and Personal Protection****Exposure Limits:**

The product does not contain dangerous substances.

**Breathing mask:**

It is not necessary to wear a mask for respiratory protection.

**Gloves:**

To prevent skin contact, disposable gloves in accordance with DIN EN 455 shall be worn. (Use powder free gloves to avoid allergic reactions.)

**Safety glasses:**

It is not necessary to wear glasses for eye protection.

**Lab clothing:**

To prevent skin and body contact, wear laboratory clothing.

**General Hygiene Practices:**

Wash promptly if skin comes into contact with product. Wash thoroughly after handling. Remove any clothing that comes into contact with the product. Do not smoke or eat in the work environment.

**9. Physical and Chemical Properties**

Appearance	Odour	Volatility	pH	Concentration of preservative
slightly viscous, colorless solution	odourless	non volatile	7,0 - 7,5	No preservatives

**10. Stability and Reactivity****Chemical stability**

Stable

**Stability**

If stored at the temperatures prescribed in the test instructions, the reagents will be stable until the expiration date.

**11. Toxicological Information****Miscellaneous Toxicological Information:**

See Section 2

**Medical Conditions Aggravated By Exposure:**

None known

The health effects noted above are based on the extrapolation of data on the pure product ingredients. To the best of our knowledge, no health effects have been identified for the product mixture under normal conditions of use, although the health effects of the product have not been thoroughly investigated.

**12. Ecological Information**

None of the possible effects are known to have negative impact on the environment.

### **13. Disposal Considerations**

After use, discard these materials in compliance with relevant local, regional and national regulations.

### **14. Transportation Information**

No specific precautionary measures are required for the transportation of these products.

### **15. Regulatory Information**

None given

### **16. Other information**

For Research use only.

The information compiled and given above is to the best of our knowledge correct, but does not purport to be all inclusive and should only be understood by the user as a set of guidelines. These data do not represent a guarantee of product properties and do not constitute a legal contract. The products should be handled by qualified and experienced professionals only.

*American Diagnostica GmbH rejects all liability for consequential, special or indirect damage resulting from the handling, storage or use of this product We refer to our general terms of trade.*

This Material Safety Data Sheet corresponds to the REACH regulation EC No. 1907/2006.