

## MATERIAL SAFETY DATA SHEET

**Product:** Prothrombin, from human plasma  
**Synonym:** Coagulation factor II, Factor II, F2  
**E.C. No.:** 3.4.21.5  
**CAS Registry No.:** not available  
**Catalog No.:** ATP04-10

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### Composition Information

**Chemical Formula/Composition:** N/A

**Physical Description:** Clear, colourless liquid/frozen liquid

**Stability/Reactivity:** Stable. Hazardous decomposition or polymerization will not occur.

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### Hazard Identification(s)

Special note:

Contains human source material. No known test can offer complete assurance that infectious agents are totally absent.

Hazards identified with this product are those associated with the following component(s):

**Glycerol, DNase, RNase and Protease free**

**CAS Registry No.:** 56-81-5

**Concentration:** 20% v/v

**Potential Health Effects:**

**Eye:** May cause mild eye irritation.

**Skin:** May cause mild skin irritation. Low hazard for usual laboratory handling.

**Ingestion:** May cause gastrointestinal irritation with nausea and diarrhoea. May cause headache. Expected to be a low ingestion hazard.

**Inhalation:** Low hazard for usual laboratory handling. Inhalation of mist of this material may cause respiratory tract irritation.

**Chronic:** May cause kidney injury.

Potential hazards identified with this product are those associated with the title component (prothrombin) and with following buffer and stabilising components present at concentrations at which they are not normally considered to be hazardous:

Component	CAS Registry No.	Concentration
4-(2-Hydroxyethyl)-1-piperazineethanesulfonic acid (HEPES)	7365-45-9	<0.5%
Phenylmethylsulfonylfluoride	329-98-6	<0.002%
Micr-O-protect	64-17-5 30007-47-7 2612-54-3	0.1%

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### Toxicological Information:

Toxicological properties have not been fully investigated. May be harmful by ingestion, inhalation or skin contact. May cause allergic or autoimmune reactions.

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### Storage and Handling

Store according to instructions on product and/or package insert.  
All human source products should be handled using the same safety precautions employed when handling any potentially infectious material. Avoid contact with material. Wear protective equipment (protective clothing, chemical-resistant gloves, eye protection, respiratory protection) when handling. Cover existing cuts and wounds. Do not mouth pipette or use needles. Minimise splashing and creation of aerosols. Use disposable plastic-ware for handling where possible.

### Spill or Release of Material:

Wear protective equipment.  
Decontaminate with biocidal agent.  
Absorb liquid on dry sand, diatomite, vermiculite or other drying agent and place in closed container for disposal.  
Ventilate area and wash spill site after material absorption is complete.

### Waste Disposal:

Incinerate, autoclave or landfill as complies with state and local laws for biological materials.

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### First Aid Procedures

#### Substance in Contact with Skin:

Remove contaminated clothing and rinse with copious amounts of soap and water for a considerable amount of time. Seek medical aid if irritation develops or persists.

#### Substance has been Swallowed:

If victim is conscious rinse mouth several times with water, do not swallow. Call a physician or take victim to hospital.

#### Substance in Contact with Eyes:

Rinse with copious amounts of water for a considerable time. Seek medical aid if irritation develops or persists.

#### Substance has been Inhaled:

Take victim into the fresh air and allow to rest. Call a physician or take victim to hospital.

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### Additional Instructions:

Observe proper laboratory instructions when handling this material.

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### Fire Fighting Measures

#### General Information

Structural fire-fighting gear and self-contained breathing apparatus will provide adequate protection if this product is in a fire area.

#### Extinguishing Media

In case of fire use water spray, dry chemical, carbon dioxide, or chemical foam.

#### Unusual Fire and Explosion Hazards

N/A

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### Disclaimer

The information provided in this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. Personnel handling this material must consider these data only as supplemental to other information gathered by them and must make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of the materials and the safety and health of employees and customers. AROTEC Diagnostics Limited assumes no liability or responsibility resulting from the use of, or reliance on, this information.

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