

## Material Safety Data Sheet

### 1. Product Identification

#### 1.1. Identification of the product:

Product Name: Ecarin  
Product No.: ADG525  
Configuration: 50 U/vial, lyophilized  
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: 29.07.2013

1.4 Changed information

### 2. Possible Hazards

Ecarin, used as a diagnostic reagent, is not classified as dangerous according to EU guidelines. Parenteral uptake of Ecarin affects hemostasis and may cause bleeding. Ecarin is antigenic and may cause allergic reactions upon repeated skin and mucosa contact.

### 3. Composition and Information on Ingredients

**Chemical characterisation:** Metalloproteinase, MW 70,000-72,000 daltons

**Hazards ingredients:** None

**Other ingredients >1% g/g:** Ecarin  
CAS no.: 55466-26-7

### 4. First-aid Measures

**Skin Contact :**

Rinse with aqueous EDTA solution.

**Eye Contact :**

Rinse immediately with plenty of water possibly containing a mild detergent. Contact physician in case of irritation.

**Inhalation :**

Not applicable

**Ingestion :**

No adverse effects expected (see 11.)

**Other first aid information :**

Treatment with heparin is recommended if signs of intravascular coagulation appear.

## **5. Fire-fighting Measures**

**Extinguishing media :**

Carbon dioxide, foam, dry powder, water

**Unsuitable extinguishing media :**

None known

**Unusual fire fighting hazards :**

None known

**Special fire fighting procedure :**

None known

**Other recommendations :**

No special precautions and measures necessary.

## **6. Accidental Release Measures**

**Personal precautions :**

Avoid skin and eye contact and particle inhalation.

**Precautions to protect the environment :**

Keep away from drains and ground water.

**Cleanup procedures :**

Absorb spillages with a suitable inert material (e.g., sand or soil). Transfer the spillage to waste containers labelled in the same way as the original containers. Clean the spillage area with water and detergent. Ecarin may be adsorbed on glass, cellulose and numerous synthetic polymers. Contaminated materials may be freed from Ecarin either by heating for 1 h at 180 °C or by treatment with formaldehyde.

## **7. Handling and Storage**

**Handling precautions :**

Avoid eye and skin contact and particle inhalation.

**Storage precautions :**

Keep in a cool and dry place in the dark.

**Specific uses :**

None

## **8. Exposure Controls and Personal Protection**

**Exposure limit values :**

None

**Exposure controls :**

See 7.1

**Personal protective equipment**

- Respiratory protection : Face mask
- Hand protection : Gloves
- Eye protection : Safety glasses
- Skin protection : Additional protective equipment is normally not required.
- Other : None

**Environmental exposure Controls:**

Keep away from drains and water

## **9. Physical and Chemical Properties**

### **Appearance**

Physical state : Lyophilized cake  
Colour : White to off-white  
Odour : None

### **Safety related information**

pH : Not applicable  
Boiling point/boiling range : Not applicable  
Flash point : Not determined  
Flammability (solid, gas) : Not determined  
Explosive properties : Not determined  
Oxidizing properties : Not determined  
Vapour pressure : Not determined  
Relative density : Not determined  
Water solubility : Soluble  
Fat solubility : Insoluble  
Viscosity : Not determined  
Organic Volatiles : None

## **10. Stability and Reactivity**

### **Conditions to avoid :**

Heat > 50 °C

### **Materials to avoid :**

Chelating agents, protein-precipitating agents

### **Hazardous decomposition products :**

None known

## **11. Toxicological Information**

### **Possible dangerous-to-health effects :**

- Acute effects - oral : Allergic reactions  
- Acute effects - skin : Allergic reactions  
- Acute effects - eyes : Allergic reactions  
- Sensitisation : Allergic reactions  
- Repeated dose toxicity : Not determined  
- Toxicokinetics, metabolism : Not determined, not for oral use  
- CMR effects  
    Carcinogenicity : Not determined  
    Mutagenicity : Not determined  
    Reproductive toxicity : Not determined

## **12. Ecological Information**

### **Ecotoxicity (*aquatic / soil*) :**

Not determined

### **Mobility (distribution to environmental compartments, Surface tension, ad-/desorption):**

Not determined

### **Persistence and degradability (biodegradation, oxidation, hydrolysis...):**

Ecarin is a physiological, biodegradable compound that is harmless when released into the environment.

### **Bioaccumulative potential :**

Not determined

### **Other information :**

No adverse effects expected.

### **13. Disposal Considerations**

**Product disposal :**

Flush with plenty of water into the sewage system.

**Packaging disposal :**

Dispose of in a manner in accordance with local and national regulations.

### **14. Transportation Information**

**UN-No. :**

Not applicable

**Road and rail transport (ADR/RID) :**

Not applicable

**Air transport (ICAO/IATA-DGR) :**

Not applicable

**Sea transport (IMO/IMDG) :**

Not applicable

**Inland navigation (ADN/ADNR) :**

Not applicable

**Other information :**

Ecarin is not classified as a dangerous material according to EU guidelines.

### **15. Regulatory Information**

**Chemical Safety Report (CSR) :**

No CSR available, ECARIN 50 EU/VIAL < 10t/a

**Classification and labelling :**

Not classified

**National legislation :**

For further product information, we recommend consideration of the corresponding appropriate National Legislation.

### **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.