



**S a f e t y D a t a S h e e t**  
According to Regulation (EC) 1907/2006

15A035 **D-Valine, 99% PS**

**1. Identification of the substance/preparation and of the company or firm**

**1.1 Identification of the substance or preparation**

Name:

D-Valina

**1.2 Use of the substance/preparation:**

For laboratory utilisation, analysis, research and fine chemistry.

**1.3 Identification of the company or firm:**

PANREAC QUIMICA, S.L.U.

C/Garraf, 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: [product.safety@panreac.com](mailto:product.safety@panreac.com)

Emergencies:

Single telephone number for emergency calls: 112 (EU)

Tel.:(+34) Tel.:(+34) 937 489 499

**2. Identification of dangers**

No hazardous substance as specified in Regulation (CE) 1907/2006.

### 3. Component Composition/Information

Name: D-Valine

Formula:  $C_5H_{11}NO_2$  M.=117,14 CAS [640-68-6]

EC number (EINECS): 211-368-9

### 4. First aid

#### 4.1 General indications:

Never provide drink or induce vomiting in the event of loss of consciousness.

#### 4.2 Inhaling:

Take the person out into the fresh air. In the event sickness persists, seek medical assistance.

#### 4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing. In the event of irritation, seek medical assistance.

#### 4.4 Eyes:

Wash with plenty of water (for at least 15 minutes), keeping eyelids open. In the event of irritation, seek medical assistance.

#### 4.5 Swallowing:

Wash mouth out immediately. Drink large amounts of water. Seek medical assistance.

### 5. Fire-fighting means

#### 5.1 Suitable fire-extinguishing means:

Water. Foam. Carbon dioxide ( $CO_2$ ). Dry powder.

#### 5.2 Fire-fighting means which must NOT be used:

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#### 5.3 Special risks:

Keep away from sources of ignition. In the event of fire, toxic fumes may form:  $NO_x$ .

#### 5.4 Protective equipment:

Suitable clothing and footwear. Self-contained breathing equipment.

## **6. Measures to be taken in the event of accidental spillage**

### **6.1 Individual precautions:**

Avoid contact with the skin, eyes or clothing. Ensure adequate ventilation.

### **6.2 Precautions for care of the environment:**

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

### **6.3 Methods for collection/cleaning:**

Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

## **7. Handling and storage**

### **7.1 Handling:**

Ensure good ventilation and renewal of the air in the premises.

### **7.2 Storage:**

Well sealed containers. In a cool, dry place, away from light and well ventilated.

## **8. Staff exposure/protection controls**

### **8.1 Technical protective measures:**

Ensure good ventilation and renewal of the air in the premises.

### **8.2 Exposure limit control:**

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### **8.3 Respiratory protection:**

If dust forms, use suitable respiratory protection.

### **8.4 Hand protection:**

Use suitable gloves

### **8.5 Eye protection:**

Use suitable goggles.

### **8.6 Individual hygiene measures:**

Remove contaminated clothing. Use suitable work clothing. Wash hands before breaks and when the job is done.

### **8.7 Environmental exposure controls:**

Fulfill the commitments under local environmental protection legislation.

The supplier of the protection equipment must specify the type of protection to be worn when handling the substance or preparation, including the type of material and the breakthrough time of the material, with regard to the amount and duration of exposure.

## 9. Physical and chemical properties

Appearance:

White powder.

Odour:

Characteristic.

pH 5,9 (10%)

Melting point: >295°C

Solubility: 56 g/l in water at 20°C

## 10. Stability and reactivity

### 10.1 Conditions which should be avoided:

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### 10.2 Matter which should be avoided:

Strong oxidant agents. Strong acids. Strong bases.

### 10.3 Hazardous decomposition products:

Nitrogen oxides. Carbon monoxide. Carbon dioxide.

### 10.4 Complementary information:

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## 11. Toxicological information

### 11.1 Acute toxicity:

LD<sub>50</sub> intraperitoneal rat: 6093 mg/kg

### 11.2 Dangerous effects for health:

Through contact with the eyes: Can cause irritations.

Upon contact with the skin: Can cause irritations.

Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

## **12. Environmental information**

### **12.1 Mobility:**

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### **12.2 Ecotoxicity:**

12.1.1 - EC<sub>50</sub> test (mg/l):

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12.2.2 - Receptor medium:

Risk for the water environment = ----

Risk for the land environment = ----

12.2.3 - Observations:

Ecotoxic data not available.

### **12.3 Degradability:**

12.3.1 - Test:-----

12.3.2 - Biotic degradation classification:

BOD<sub>5</sub>/COD Biodegradability = ----

12.3.3 - Abiotic degradation depending on pH: -----

12.3.4 - Observations:

Data not available.

### **12.4 Accumulation:**

12.4.1 - Test:

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12.4.2 - Bioaccumulation:

Risk = -----

12.4.3 - Observations:

Data not available.

### **12.5 Other possible effects on the environment:**

Do not allow it to enter soils or water channels. Product hardly pollutant for water.

### **13. Considerations regarding elimination**

#### **13.1 Substance or preparation:**

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country. In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes.

Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

#### **13.2 Contaminated containers:**

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

### **14. Information concerning transport**

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### **15. Mandatory information**

#### **15.1 Labelling as per REACH**

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### **16. Other information**

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The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.