



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

15A861 *p*-Toluidine, 99% PS

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

**1.1 Identification of the substance or preparation**

Name:

*p*-Toluidine

**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**

Toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes. Limited evidence of a carcinogenic effect. May cause sensitization by skin contact. Very toxic to aquatic organisms.

### 3. Component Composition/Information

Name: p-Toluidine

Formula:  $\text{CH}_3\text{C}_6\text{H}_4\text{NH}_2$  M.=107,16 CAS [106-49-0]

EC number (EINECS): 203-403-1

EC index number: 612-160-00-4

### 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 of suffocation, proceed immediately to provide artificial respiration. Seek immediate medical assistance.

#### 4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

#### 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:

Drink large amounts of water. Administer a solution of medical-usage active charcoal. Induce vomiting. Seek immediate medical assistance. Do not administer digestive oils. Do not drink milk. Do not drink ethyl alcohol.

### 5. Fire-fighting means

#### 5.1 Suitable fire-extinguishing means:

Water. Dry powder. Foam.

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

-----

#### 5.3 Special risks:

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

#### 5.4 Protective equipment:

-----

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

### **6.1 Individual precautions:**

Do not inhale the dust. Avoid contact with the skin, eyes or clothing.

### **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:**

No special indications.

### **7.2 Storage:**

Well sealed containers. In well ventilated premises. Atmospheric temperature. Restricted access, only authorized to technicians.

## **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:**

VLA-ED: 2 ppm or 8,9 mg/m<sup>3</sup>, dermal resorption

### **8.3 Respiratory protection:**

If dust forms, use suitable respiratory protection. Filter A. Filter P<sub>3</sub>.

### **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 and face before breaks and when the job is done. Do not eat, drink or smoke in the workplace.

### **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:

Pink crystals.

Odour:

Characteristic.

Boiling point: X200°C

Melting point: X45°C

Flash point: 87°C

Self-ignition temperature: 482°C

Vapour pressure: 1,3 hPa (43°C)

Density (20/4): 0,973

Solubility: 7,4 g/l in water at 25°C

## 10. Stability and reactivity

### 10.1 Conditions which should be avoided:

High temperatures.

### 10.2 Matter which should be avoided:

Acids. Air.

### 10.3 Hazardous decomposition products:

Nitrous fumes.

### 10.4 Complementary information:

Light-sensitive.

## **11. Toxicological information**

### **11.1 Acute toxicity:**

LD<sub>50</sub> oral rat: 656 mg/kg

LD<sub>50</sub> intraperitoneal mouse: 50 mg/kg

LD<sub>50</sub> oral rabbit: 270 mg/kg

Rabbit skin sensitization test: 500 mg/24h: light.

Eye irritation test (rabbits): 100 mg/72h: highly.

Subacute to chronic toxicity: There are no definite objective conclusions regarding the carcinogenic effect of this substance.

### **11.2 Dangerous effects for health:**

If inhaled: Irritations to the mucosae, coughing, breathing difficulties.

Upon contact with the skin: irritations. Risk of cutaneous absorption.

Through contact with the eyes: irritations.

If swallowed: nausea, vomiting.

Systemic effects: If it is absorbed in large quantities: metahemoglobinemia with headaches, arrhythmia, hypotension, breathing difficulties, spasms, cyanosis, effects on the central nervous system, narcosis, cardiovascular disorders, hepatic problems.

Effect potentiated by ethanol.

## 12. Environmental information

### 12.1 Mobility:

Repartition:  $\log P(\text{oct}) = 3,1$

### 12.2 Ecotoxicity:

12.2.1 -  $EC_{50}$  test (mg/l):

Bacteria (*Photobacterium phosphoreum*) = 8,13 mg/l ; Classification: Extr. toxic

Bacteria (*E. coli*) =  $EC_0$  1000 mg/l ; Classification: Toxic

12.2.2 - Receptor medium:

Risk for the water environment = Medium

Risk for the land environment = Medium

12.2.3 - Observations:

-----

### 12.3 Degradability:

12.3.1 - Test:  $CODD = 90\%$  ThOD

ThOD = 3,14 mg/l

12.3.2 - Biotic degradation classification:

$BOD_5/COD$  Biodegradability = -----

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

12.3.4 - Observations:

-----

### 12.4 Accumulation:

12.4.1 - Test:

-----

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. Water-pollutant product.

### **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**

Overland (ADR):

Technical name: TOLUIDINAS SÓLIDAS

ONU 3451 Class: 6.1 Packaging group: II (D/E)

By sea (IMDG):

Technical name: TOLUIDINAS SÓLIDAS

ONU 3451 Class: 6.1 Packaging group: II

By air (ICAI-IATA):

Technical name: Toluidinas, sólidas

ONU 3451 Class: 6.1 Packaging group: II

Packaging instructions: CAO 615 PAX 613

## 15. Mandatory information

### 15.1 Labelling as per REACH

Symbols: 

Danger indications: Toxic Dangerous for the environment

Phrases R: 23/24/25-36-40-43-50 Toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes. Limited evidence of a carcinogenic effect. May cause sensitization by skin contact. Very toxic to aquatic organisms.

Phrases S: 28a-36/37-45-61 After contact with skin, wash immediately with plenty of water. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Avoid release to the environment. Refer to special instructions-safety data sheet.

EC index number: 612-160-00-4

## 16. Other information

Review number and date:3 07.06.09

In respect of the previous review, changes have been made to the following sections: 14. 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.