



## Safety Data Sheet

According to Regulation (EC) 1907/2006



3317 Trifluoroacetic Acid

# Identification of the substance/preparation and of the company or firm

## 1.1 Identification of the substance or preparation

Name:

Trifluoroacetic Acid

**Synonym:**

TFA

**REACH Registration Number:** A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

## 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)

#### 1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

## Identification of dangers

Classification of the substance or the mixture.

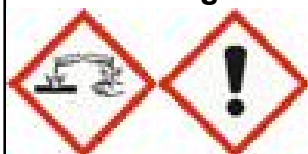
#### Classification Regulation (CE) n° 1272/2008.

Acute Tox. 4

Skin Corr. 1A

Aquatic Chronic 3

#### Hazard Pictograms



#### Signal word

Danger

#### Hazard statements

H332 Harmful if inhaled.

H314 Causes severe skin burns and eye damage.

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash...thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Classification (67/548/CEE or 1999/45/CE).

R52/53

C Corrosive R35

R20

For the full text of the R-phrases mentioned in this section, see section 16.

## Component Composition/Information

Name: Trifluoroacetic Acid

Formula: C<sub>2</sub>HF<sub>3</sub>O<sub>2</sub> M.= 114,02 CAS [76-05-1]

EC number (EINECS): 200-929-3

EC index number: 607-091-00-1

## 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. Take the product out with cotton wool soaked in polyethylene-glycol 400. In the event of irritation, seek medical assistance.

### 4.4 Eyes:

Wash with plenty of water (for at least 15 minutes), keeping eyelids open. Seek immediate medical assistance.

### 4.5 Swallowing:

Drink large amounts of water. Avoid vomiting (there is a risk of perforation). Seek immediate medical assistance.

## Fire-fighting means

### 5.1 Suitable fire-extinguishing means:

As appropriate to the environment. Use atomized water to wash down any fumes given off.

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

No specific data.

### 5.3 Special risks:

Incombustible. In the event of fire, toxic fumes may form: HF, F2.

### 5.4 Protective equipment:

Suitable clothing and footwear.

## Measures to be taken in the event of accidental spillage

### 6.1 Individual precautions:

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 with absorbent materials (Panreac General Absorbent, Kieselguhr, etc.) or, if none available, dry sand or earth, and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

## Handling and storage

### 7.1 Handling:

No special indications.

### 7.2 Storage:

Well sealed containers. In well ventilated premises. Room temperature. Do not store in metal containers.

## Staff exposure/protection controls

### 8.1 Technical protective measures:

No special indications.

### 8.2 Exposure limit control:

: Data not available.

### 8.3 Respiratory protection:

In the event of fumes forming/aerosols, 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 and face before breaks and when the job is done.

### 8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

## Physical and chemical properties

Appearance: liquid

Colour: Colourless

Granulometry: N/A

Odour: Piquant.

pH:

N/A

Melting point/freezing point: -15,2 °C

Initial boiling point and boiling range: 72,4 °C

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: 142 hPa (25 °C)

Vapour density: N/A

Relative density: (20/4) 1,489

Solubility: Miscible with water

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: N/A

Viscosity: N/A

## Stability and reactivity

### 10.1 Conditions which should be avoided:

High temperatures.

### 10.2 Matter which should be avoided:

Metals. Alkaline solutions.

### 10.3 Hazardous decomposition products:

No specific data.

### 10.4 Complementary information:

Hygroscopic. Heat sensitive.

## Toxicological information

- **Acute toxicity:**

LD50 oral rat : 200 mg/kg

LC50 inh rat : 10 g/m<sup>3</sup>

- **Dangerous effects for health:**

If fumes inhaled: Irritations to the mucosae oedemas in the respiratory tract Upon contact with the skin: burns Penetration of the product causes injuries which are hard to cure. Through contact with the eyes: burns Risk of blindness (irreversible injury of the optic nerve) If swallowed: Causes nausea vomiting Severe pains, with risk of perforation. Systemic effects: hepatic problems kidney problems Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

## **Environmental information**

### **12.1 Toxicity:**

12.1.1 - EC50 test (mg/l):

Classification:

12.1.2. - Receptor medium:

Risk for the water environment

Risk for the land environment

12.1.3. - Observations:

Ecotoxic data not available.

The ecotoxicity is due to the pH deviation.

### **12.2 Persistence and Degradability :**

12.2.1 - Test:

12.2.2. - Biotic degradation classification:

BOD5/COD

Biodegradability

12.2.3. - Abiotic degradation depending on pH:

12.2.4. - Observations:

Data not available.

### **12.3 Bioaccumulative potential:**

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk

12.3.3. - Observations:

Data not available.

### **12.4 Mobility in soil :**

Data not available.

### **12.5 Assessment PBT and MPMB :**

Data not available.

**12.6 Other possible effects on the environment:**

Do not allow it to enter soils or water channels.

Water-pollutant product.

Corrosive product, even in diluted form.

## 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.

## Information concerning transport

Overland (ADR):

Technical name: TRIFLUOROACETIC ACID

UN 2699 Class: 8 Packaging group: I (E)

By sea (IMDG):

Technical name: TRIFLUOROACETIC ACID

UN 2699 Class: 8 Packaging group: I

By air (ICAI-IATA):

Technical name: Trifluoroacetic acid

UN 2699 Class: 8 Packaging group: I

Packaging instructions: CAO 854 PAX 850

# Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## Other information

### Other precautionary statements

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P321 Specific treatment (see on this label).

P338 Remove contact lenses, if present and easy to do. Continue rinsing.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

### Labelling (65/548/CEE or 1999/45/CE)

|              |   |
|--------------|---|
| R-phrase(s): | <b>R52/53</b> Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.<br><b>R35</b> Causes severe burns.<br><b>R20</b> Harmful by inhalation.   |
| S-phrase(s): | <b>S28a</b> After contact with skin, wash immediately with plenty of water.<br><b>S27</b> Take off immediately all contaminated clothing.<br><b>S26</b> In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.<br><b>S9</b> Keep container in a well-ventilated place.<br><b>S45</b> In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).<br><b>S61</b> Avoid release to the environment. Refer to special instructions/safety data sheets. |



Review number and date: 3 3.11.10

Date published: 3.11.10

In respect of the previous review, changes have been made to the following sections: 2, 3, 15

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.