



## Safety Data Sheet According to Regulation (EU) 830/2015

### 3317 Trifluoroacetic Acid

#### 1. Identification of the substance/mixture and of the company/undertaking

##### 1.1 Product identifier

Name:

Trifluoroacetic Acid

**Synonym:**

TFA

**REACH Registration Number:** 01-2119548396-29-XXXX

##### 1.2 Relevant identified uses of the substance or mixture:

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)

#### 2. Identification of dangers

##### 2.1 Classification of the substance or the mixture.

Acute Tox. 4

Skin Corr. 1A

Aquatic Chronic 3

## 2.2 Label elements:

### Hazard Pictograms



### Signal word

#### 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 or 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 or face protection.

## 2.3 Other hazards:

No further relevant information available.

## 3. Composition/information on ingredients

### 3.1 Substances

Name: Trifluoroacetic Acid

Formula:  $\text{C}_2\text{HF}_3\text{O}_2$  M.= 114,02 CAS [76-05-1]

EC number (EINECS): 200-929-3

EC index number: 607-091-00-1

REACH Registration Number: 01-2119548396-29-XXXX

### 3.2 Mixtures

## 4. First aid measures

### 4.1 Description of first aid measures

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

### 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

### **4.3 Indication of any immediate medical attention and special treatment needed**

#### **Swallowing:**

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

#### **Inhaling:**

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

#### **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.

#### **Eyes:**

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

## **5. Firefighting measures**

### **5.1 Extinguishing media:**

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

### **5.2 Special hazards arising from the substance or mixture:**

Incombustible. In the event of fire, toxic fumes may form: HF, F<sub>2</sub>.

### **5.3 Advice for firefighters:**

Suitable clothing and footwear.

## **6. Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures:**

Avoid contact with the skin, eyes or clothing.

### **6.2 Environmental precautions:**

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

### **6.3 Methods and material for containment and cleaning up:**

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.

### **6.4 Reference to other sections**

Not applicable

## **7. Handling and storage**

### **7.1 Precautions for safe handling:**

No special indications.

## **7.2 Conditions for safe storage, including any incompatibilities:**

Well sealed containers. In well ventilated premises.

**Recommended storage temperature:** Room temperature. Do not store in metal containers.

## **7.3 Specific end use(s)**

No more relevant data available

# **8. Exposure controls/personal protection**

## **8.1 Control parameters:**

Data not available.

## **8.2 Exposure controls**

No special indications.

Respiratory protection:

In the event of fumes forming/aerosols, use suitable respiratory protection.

Hand protection:

Use suitable gloves

Eye/face protection:

Use safety glasses.

Individual hygiene measures:

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

Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

# **9. Physical and chemical properties**

## **9.1 Information on basic 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 g/ml

Solubility: Miscible with water

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: N/A

Kinematic viscosity: N/A

Dynamic viscosity: 0,91 mPa.s (20 °C)

## **9.2 Other information**

No more relevant data available

## **10. Stability and reactivity**

### **10.1 Reactivity**

No specific data.

### **10.2 Chemical stability:**

Hygroscopic. Heat sensitive.

### **10.3 Possibility of hazardous reactions**

No specific data.

### **10.4 Conditions to avoid:**

High temperatures.

### **10.5 Incompatible materials:**

Metals. Alkaline solutions.

### **10.6 Hazardous decomposition products:**

No specific data.

## **11. Toxicological information**

### **11.1 Information on toxicological effects**

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.

## **12. Environmental information**

### **12.1 Toxicity:**

#### **- EC50 test (mg/l):**

Classification:

#### **- Receptor medium:**

Risk for the water environment

Risk for the land environment

#### **- Observations:**

Ecotoxic data not available.

The ecotoxicity is due to the pH deviation.

## **12.2 Persistence and Degradability :**

### **- Test:**

### **- Biotic degradation classification:**

BOD5/COD

Biodegradability

### **- Abiotic degradation depending on pH:**

### **- Observations:**

Data not available.

## **12.3 Bioaccumulative potential:**

### **- Test:**

### **- Bioaccumulation:**

Risk

### **- Observations:**

Data not available.

## **12.4 Mobility in soil :**

Data not available.

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

Data not available.

## **12.6 Other adverse effects:**

Do not allow it to enter soils or water channels.

Water-pollutant product.

Corrosive product, even in diluted form.

## **13. Disposal considerations**

### **13.1 Waste treatment methods:**

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.

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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.

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## **14. Transport information**

**14.1 UN number**

UN2699

**14.2 UN proper shipping name**

TRIFLUOROACETIC ACID

**14.3 Transport hazard class(es)**

8

**14.4 Packing group**

ADR/IMDG: I

IATA: I

**14.5 Environmental hazards****14.6 Special precautions for user**

Not applicable

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable

**15. Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

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

**15.2 Chemical safety assessment**

Not applicable

**16. 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.

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

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.