

Safety Data Sheet

According to Regulation (EC) 1907/2006



1811 mono-Chloroacetic Acid

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

### 1.1 Identification of the substance or preparation

Name:

mono-Chloroacetic Acid

### 1.2 Synonym:

Chloroacetic Acid, Chloroethanoic Acid

### 1.3 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

### 1.4 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) 937 489 499

# Identification of dangers

Classification of the substance or the mixture.

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

Acute Tox. 3

Acute Tox. 3

Acute Tox. 3

Skin Corr. 1B

Aquatic Acute 1

## Hazard Pictograms



## Signal word

Danger

## Hazard statements

H331 Toxic if inhaled.

H311 Toxic in contact with skin.

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

## 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.

P270 Do not eat, drink or smoke when using this product.

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

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

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

**N** Dangerous for the environment

R50

**T** Toxic

R34

R23/24/25

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

# Component Composition/Information

Name: mono-Chloroacetic Acid

Formula: CH<sub>2</sub>ClCOOH M.= 94,50 CAS [79-11-8]

EC number (EINECS): 201-178-4

EC index number: 607-003-00-1

## 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:

Dry powder. Water. Foam.

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

### 5.3 Special risks:

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

### 5.4 Protective equipment:

## 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 dry 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 a cool, dry place.

## Staff exposure/protection controls

### 8.1 Technical protective measures:

### 8.2 Exposure limit control:

### 8.3 Respiratory protection:

Use suitable breathing equipment. Filter AP3.

### 8.4 Hand protection:

Use suitable gloves

### 8.5 Eye protection:

Use suitable goggles.

### 8.6 Individual hygiene measures:

Remove contaminated clothing. Use complete protective equipment. 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.

## Physical and chemical properties

Appearance: solid

Colour: White

Granulometry:

Odour: Piquant.

pH:

Melting point/freezing point: 63 °C

Initial boiling point and boiling range: 189 °C

Flash point: 126 °C

Flammability (solid, gas):

Upper/lower flammability or explosive limits: / 8 %(V)

Vapour pressure: 1 hPa (20 °C)

Vapour density:

Relative density: (20/4) 1,37

Solubility: 815 g/l water 20 °C

Partition coefficient: n-octanol/water:

Auto-ignition temperature: 470 °C

Decomposition temperature:

Viscosity:

## Stability and reactivity

### 10.1 Conditions which should be avoided:

High temperatures.

### 10.2 Matter which should be avoided:

Alkaline hydroxides. Alkaline solutions.

### 10.3 Hazardous decomposition products:

Hydrogen chloride.

### 10.4 Complementary information:

Hygroscopic.

## Toxicological information

- **Acute toxicity:**

LD50 oral rat : 580 mg/kg

LC50 inh rat : 180 mg/m<sup>3</sup>

- **Dangerous effects for health:**

If dust inhaled: Irritations to the mucosae coughing breathing difficulties Upon contact with the skin: burns Through contact with the eyes: burns If swallowed: Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract. Risk of sensitization allergic reaction nausea vomiting Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

## Environmental information

**12.1 Mobility:****12.2 Ecotoxicity:**

12.1.1 - EC50 test (mg/l):

12.2.2 - Receptor medium:

Risk for the water environment

Medium

Risk for the land environment

Low

12.2.3 - Observations:

Possibly toxic for bacteria and plankton.

**12.3 Degradability:**

12.3.1 - Test:

12.3.2 - Biotic degradation classification:

BOD5/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:

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

Do not allow it to enter soils or water channels.

## 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: CHLOROACETIC ACID, SOLID

UN 1751 Class: 6.1 8 PELIG.M.AMB Packaging group: II (D/E)

By sea (IMDG):

Technical name: CHLOROACETIC ACID, SOLID

UN 1751 Class: 6.1 8 PELIG.M.AMB Packaging group: II

By air (ICAI-IATA):

Technical name: Chloroacetic acid, solid

UN 1751 Class: 6.1 8 PELIG.M.AMB Packaging group: II

Packaging instructions: CAO 616 PAX 614

## **Regulatory information**

## **Other information**

### Other precautionary statements

P273 Avoid release to the environment.

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

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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.

P311 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).

P322 Specific measures (see on this label).

P330 Rinse mouth.

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

P361 Remove/Take off immediately all contaminated clothing.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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

R-phrased(s):	<b>R50</b> Very toxic to aquatic organisms. <b>R34</b> Causes burns. <b>R23/24/25</b> Toxic by inhalation, in contact with skin and if swallowed.
S-phrased(s):	<b>S61</b> Avoid release to the environment. Refer to special instructions/safety data sheets. <b>S45</b> In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). <b>S36/37/39</b> Wear suitable protective clothing, gloves and eye/face protection. <b>S26</b> In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. <b>S63</b> In case of accident by inhalation: remove casualty to fresh air and keep at rest.



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.