



## Safety Data Sheet

According to Regulation (EC) 1907/2006



A829 N,N"-Dicyclohexylcarbodiimide

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

## 1.1 Identification of the substance or preparation

Name:

N,N"-Dicyclohexylcarbodiimide

## 1.2 Synonym:

Carbodicyclohexylimide, DCC, DCCI

## 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

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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. 4

Acute Tox. 3

Eye Dam. 1

Skin Sens. 1

## Hazard Pictograms



## Signal word

Danger

## Hazard statements

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

## Precautionary statements

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.

P272 Contaminated work clothing should not be allowed out of the workplace.

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

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

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

R43

R41

T Toxic

R24

R22

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

# Component Composition/Information

Name: N,N"-Dicyclohexylcarbodiimide

Formula: C<sub>13</sub>H<sub>22</sub>N<sub>2</sub> M.= 206,33 CAS [538-75-0]

EC number (EINECS): 208-704-1

EC index number: 615-019-00-5

## 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 to provide artificial respiration.

### 4.3 Contact with the skin:

Take the product out with cotton wool soaked in polyethylene-glycol 400. Wash with plenty of water. Remove contaminated clothing.

### 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. Drink large amounts of water. Induce vomiting. Induce vomiting. Seek immediate medical assistance. Seek immediate medical assistance.

## Fire-fighting means

### 5.1 Suitable fire-extinguishing means:

Water. Carbon dioxide (CO<sub>2</sub>). Foam. Dry powder.

### 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: Do not dispose of chemically polluted water into the soil, into water supplies or down drains. Take the necessary precautions to keep back the water used for subsequent elimination in accordance with D

### 5.4 Protective equipment:

Suitable clothing and footwear. Self-contained breathing 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 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:**

Handle under an extractor fan.

### **7.2 Storage:**

Well sealed containers. In well ventilated premises. In a cool place. Away from sources of ignition and heat. Dry atmosphere. Restricted access, only authorized to technicians.

## **Staff exposure/protection controls**

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

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

### **8.3 Respiratory protection:**

Use suitable breathing equipment.

### **8.4 Hand protection:**

Use suitable gloves

### **8.5 Eye protection:**

Use suitable goggles.

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

Remove contaminated clothing. Wash hands before breaks and when the job is done. Use suitable work clothing. Do not inhale the substance.

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

Fulfill the commitments under local environmental protection legislation.

## **Physical and chemical properties**

Appearance: solid

Colour: Colourless

Granulometry:

Odour: Characteristic.

pH:

Melting point/freezing point: 33 - 36 °C

Initial boiling point and boiling range: 148 °C 152 °C

Flash point: 113 °C

Flammability (solid, gas):

Upper/lower flammability or explosive limits:

Vapour pressure: 14,63 hPa (155 °C)

Vapour density:

Relative density:

Solubility: Insoluble in water. Soluble in alcohol and ether.

Partition coefficient: n-octanol/water:

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

## Stability and reactivity

**10.1 Conditions which should be avoided:**

**10.2 Matter which should be avoided:**

Acids.

**10.3 Hazardous decomposition products:**

**10.4 Complementary information:**

Hygroscopic.

## Toxicological information

- **Acute toxicity:**

LD50 oral rat : 1.579 mg/kg

- **Dangerous effects for health:**

The data we have are insufficient for correct toxicological assessment. Based on the physico-chemical properties, the likely dangerous characteristics are: Upon contact with the skin: irritations sensitization Through contact with the eyes: irritations If swallowed: Harmful to the health. 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

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:

BOD5/COD

Biodegradability

12.3.3 - Abiotic degradation depending on pH:

12.3.4 - Observations:

Low biodegradability product.

**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.

## 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: TOXIC SOLID, ORGANIC, N.O.S.

UN 2811 Class: 6.1 Packaging group: II (D/E)

By sea (IMDG):

Technical name: TOXIC SOLID, ORGANIC, N.O.S.

UN 2811 Class: 6.1 Packaging group: II

By air (ICAI-IATA):

Technical name: Toxic solid, organic, n.o.s.

UN 2811 Class: 6.1 Packaging group: II

Packaging instructions: CAO 615 PAX 613

## **Regulatory information**

## **Other information**

**Other precautionary statements**

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
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).  
P322 Specific measures (see on this label).  
P330 Rinse mouth.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P361 Remove/Take off immediately all contaminated clothing.  
P363 Wash contaminated clothing before reuse.  
P405 Store locked up.

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

R-phrases(s):	<b>R43</b> May cause sensitisation by skin contact. <b>R41</b> Risk of serious damage to eyes. <b>R24</b> Toxic in contact with skin. <b>R22</b> Harmful if swallowed.
S-phrases(s):	<b>S45</b> In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). <b>S37/39</b> Wear suitable 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>S24</b> Avoid contact with skin.

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.

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

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