

# Safety Data Sheet

According to Regulation (EC) 1907/2006



## 3145 N,N-Dimethylacetamide

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

#### 1.1 Identification of the substance or preparation

Name:

N,N-Dimethylacetamide

#### Synonym:

Acetic Acid Dimethylamide, DMAC

**REACH Registration Number:** 01-2119459339-27-XXXX

#### 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

## 2. Identification of dangers

Classification of the substance or the mixture.

**Classification Regulation (CE) nº 1272/2008.**

Repr. 1B

Acute Toxicity Inhalation cat. 4

Acute Toxicity Dermal cat. 4

### Hazard Pictograms



### Signal word

Danger

### **Hazard statements**

H360D May damage the unborn child.

H332 Harmful if inhaled.

H312 Harmful in contact with skin.

### **Precautionary statements**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

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

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

P281 Use personal protective equipment as required.

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

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

**T** Toxic

R20/21

R61

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

## **3. Component Composition/Information**

Name: N,N-Dimethylacetamide

Formula: C<sub>4</sub>H<sub>9</sub>NO M.= 87,12 CAS [127-19-5]

EC number (EINECS): 204-826-4

EC index number: 616-011-00-4

REACH Registration Number: 01-2119459339-27-XXXX

## **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 sickness persists, seek 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. Induce vomiting. Seek medical assistance.

## **5. Fire-fighting means**

### **5.1 Suitable fire-extinguishing means:**

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

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

No specific data.

**5.3 Special risks:**

Flammable. Keep away from sources of ignition. In the event of fire, toxic fumes may form: CO,NO<sub>x</sub>,CO<sub>2</sub>. Possible re-ignition.

**5.4 Protective equipment:**

Suitable clothing and footwear. Self-contained breathing equipment.

**6. Measures to be taken in the event of accidental spillage****6.1 Individual precautions:**

No special indications.

**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.

**7. Handling and storage****7.1 Handling:**

No special indications.

**7.2 Storage:**

Well sealed containers. In a cool, dry, well ventilated place.

**8. Staff exposure/protection controls****8.1 Technical protective measures:**

No special indications.

**8.2 Exposure limit control:**

TLV-TWA: 10 ppm - 36 mg/m<sup>3</sup> ,

VLA-EC: 20 ppm - 72 mg/m<sup>3</sup> ,

VLA-ED: 10 ppm - 36 mg/m<sup>3</sup> ,

**8.3 Respiratory protection:**

Use suitable breathing equipment. Filter P. Filter A.

**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 before breaks and when the job is done. Do not inhale the substance.

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

Fulfill the commitments under local environmental protection legislation.

## **9. Physical and chemical properties**

Appearance: liquid

Colour: Colourless

Granulometry: N/A

Odour: N/A

pH:

N/A

Melting point/freezing point: -20 °C

Initial boiling point and boiling range: 165 °C

Flash point: 70 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits: 11,5 %(V) / 2 %(V)

Vapour pressure: 3 hPa (20 °C)

Vapour density: N/A

Relative density: (20/4) 0,941

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:

N/A

## **10. Stability and reactivity**

### **10.1 Conditions which should be avoided:**

High temperatures.

### **10.2 Matter which should be avoided:**

Acids. Strong oxidant agents.

### **10.3 Hazardous decomposition products:**

NO<sub>x</sub>, CO, CO<sub>2</sub>.

### **10.4 Complementary information:**

Moisture sensitive.

## **11. Toxicological information**

### **11.1 Acute toxicity:**

LD50 oral rat : 4.930 mg/kg

LD50 skn rbt : 2.240 mg/kg

LC50 inh rat : 2475 ppm 1h

LD50 ipr mus : 2.800 mg/kg

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

Through contact with the eyes: irritations slight Upon contact with the skin: irritations slight Can cause alterations of the metabolism hepatic problems Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

## **12. Environmental information**

### **12.1 Toxicity:**

Bacteria (Photobacterium phosphoreum) EC50 2393 mg/l;  
Possibly toxic for bacteria and plankton.

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

Data not available.

### **12.3 Bioaccumulative potential:**

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.

## **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.

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### **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.

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## **14. Information concerning transport**

Not classified as dangerous in the meaning of transport regulations.

## **15. Regulatory information**

The substance is included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

## **16. Other information**

**Other precautionary statements**

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

P308+P313 IF exposed or concerned: Get medical advice/attention.

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

P322 Specific measures (see on this label).

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-phrases(s):     **R20/21** Harmful by inhalation and in contact with skin.

**R61** May cause harm to the unborn child.

S-phrases(s):     **S45** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**S53** Avoid exposure - obtain special instructions before use.

Version and revision date : 4 10.7.2012

Replaced: 3.11.10

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.