

Safety Data Sheet  
According to Regulation (EC) 1907/2006



**4905 Indicator 4,4, Mixed (Methyl Red-Methylene Blue)**

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

**1.1 Identification of the substance or preparation**

Name:

Indicator 4,4, Mixed (Methyl Red-Methylene Blue)

**Synonym:**

**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

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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) n° 1272/2008.**

Flam. Liq. 2

**Hazard Pictograms**



**Signal word**

Danger

**Hazard statements**

H225 Highly flammable liquid and vapour.

**Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/.../ equipment.

P242 Use only non-sparking tools.

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

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

R10

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

**3. Component Composition/Information**

Hydroalcoholic solution

Name: Indicator 4,4, Mixed (Methyl Red-Methylene Blue)

**Composition:****0001: Ethanol absolute**

Formula:  $\text{CH}_3\text{CH}_2\text{OH}$  M.= 46,07 CAS [64-17-5]

EC number (EINECS): 200-578-6

EC index number: 603-002-00-5

REACH Registration Number: 01-2119457610-43-XXXX

**Content:**  $\geq 20\%$

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

Flam. Liq. 2

**Hazard Pictograms****Signal word**

Danger

**Hazard statements**

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### **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/.../ equipment.  
P242 Use only non-sparking tools.  
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.  
P243 Take precautionary measures against static discharge.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P370+P378 In case of fire: Use for extinction.  
P403+P235 Store in a well-ventilated place. Keep cool.

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

**F** Highly flammable      **R11** Highly flammable.

## **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 of suffocation, proceed to provide artificial respiration.

### **4.3 Contact with the skin:**

Wash with plenty of water. Remove contaminated clothing.

### **4.4 Eyes:**

Wash with plenty of water, keeping eyelids open.

### **4.5 Swallowing:**

Induce vomiting. Drink large amounts of water. Do not administer emetics. Do not administer animal carbon. Do not drink milk. Seek medical assistance.

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

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

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

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

No specific data.

### **5.3 Special risks:**

Flammable. Keep away from sources of ignition. The fumes are heavier than air, so they may spread at floor level. May form explosive mixtures with the air.

### **5.4 Protective equipment:**

Suitable clothing and footwear.

## **6. Measures to be taken in the event of accidental spillage**

**6.1 Individual precautions:**

Do not inhale the fumes.

**6.2 Precautions for care of the environment:**

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 well ventilated premises. Away from sources of ignition and heat. Room temperature.

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

Ensure good ventilation and renewal of the air in the premises.

**8.2 Exposure limit control:**

VLA-ED(ethanol): 1.000 ppm - 1.910 mg/m<sup>3</sup>

**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. Wash hands before breaks and when the job is done.

**8.7 Environmental exposure controls:**

Fulfill the commitments under local environmental protection legislation.

**9. Physical and chemical properties**

Appearance: liquid

Colour: grey to brownish

Granulometry: N/A

Odour: Characteristic.

pH:

N/A

Melting point/freezing point: N/A

Initial boiling point and boiling range:

N/A

Flash point: 25,0 °C (closed cup)  
Flammability (solid, gas):  
N/A  
Upper/lower flammability or explosive limits:  
N/A  
Vapour pressure: N/A  
Vapour density: N/A  
Relative density:  
N/A  
Solubility: Miscible with alcohol and water  
Partition coefficient: n-octanol/water:  
N/A  
Auto-ignition temperature:  
N/A  
Decomposition temperature: N/A  
Viscosity: N/A

## **10. Stability and reactivity**

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

The product is chemically stable under standar ambient conditions (room temperature).

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

Alkaline metals. Alkaline oxides. Strong oxidant agents.

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

No specific data.

### **10.4 Complementary information:**

The gases/fumes can form explosive mixtures with the air.

## **11. Toxicological information**

### **11.1 Acute toxicity:**

LD50 oral rat : 7.060 mg/kg (ethanol)  
LD L0 oral hmn : 1.400 mg/kg (ethanol)  
LC50 inh rat : 20000 ppm (ethanol) 10h  
LC L0 inh gpg : 21900 ppm (ethanol)

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

Taking the preparation' components into account, the likely dangerous characteristics are as follows: Irritations to the mucosae slight If swallowed: Absorption effects on the central nervous system intoxication anxiety ataxia (motor coordination disorders) respiratory paralysis narcosis Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

## **12. Environmental information**

## **12.1 Toxicity:**

12.1.1 - EC50 test (mg/l):

Bacteria (*Photobacterium phosphoreum*) 47000 mg/l

Classification:

Toxic

Bacteria (*Ps. putida*) EC0 >6500 mg/l

Classification: Toxic

Algae (*Sc. quadricauda*) EC0 >5000 mg/l

Classification: Toxic

Algae (*M. aeruginosa*) EC0 >1450 mg/l

Classification: Toxic

Crustaceans (*Daphnia magna*) EC0 >7800 mg/l

Classification: Toxic

Fish >10.000 mg/l

Classification:

Toxic or hardly toxic

12.1.2. - Receptor medium:

Risk for the water environment

Low

Risk for the land environment

Low

12.1.3. - Observations:

Non-ecotoxic compound if the dumping concentration is not very high.

## **12.2 Persistence and Degradability :**

Biodegradable product.

## **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:**

No interferences are to be anticipated in treatment plants if use correctly.

If suitable handling conditions are maintained, no ecological problems are to be anticipated.

DATA BASED on the components of the preparation.

## **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.

## 14. Information concerning transport

Overland (ADR):

Technical name: FLAMMABLE LIQUID, N.O.S.

UN 1993 Class: 3 Packaging group: III (D/E)

By sea (IMDG):

Technical name: FLAMMABLE LIQUID, N.O.S.

UN 1993 Class: 3 Packaging group: III

By air (ICAI-IATA):

Technical name: Flammable liquid, n.o.s.

UN 1993 Class: 3 Packaging group: III

Packaging instructions: CAO 366 PAX 355

## 15. Regulatory information

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

## 16. Other information

### Other precautionary statements

P243 Take precautionary measures against static discharge.

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

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

P370+P378 In case of fire: Use for extinction.

P403+P235 Store in a well-ventilated place. Keep cool.

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

R-phrases: **R10** Flammable.

S-phrases: **S16** Keep away from sources of ignition - No smoking.

Review number and date: 4 9.12.2011

Date published: 9.12.2011

In respect of the previous review, changes have been made to the following sections: 9

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.