

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



**6079 Zeleny's Reagent**

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

**1.1 Identification of the substance or preparation**

Name:

Zeleny's Reagent

**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:**

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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.**

Eye Irrit. 2

Skin Irrit. 2

**Hazard Pictograms**



**Signal word**

Warning

**Hazard statements**

H319 Causes serious eye irritation.

H315 Causes skin irritation.

**Precautionary statements**

P264 Wash...thoroughly after handling.

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

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.

P321 Specific treatment (see on this label).

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

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

**Xi** Irritant

R36/38

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

**3. Component Composition/Information**

Name: Zeleny's Reagent

**Composition:****0001: 2-Propanol**

Formula: CH3CHOHCH3 M.= 60,10 CAS [67-63-0]

EC number (EINECS): 200-661-7

EC index number: 603-003-00-0

REACH Registration Number: 01-2119457558-25-XXXX

**Content:** >= 10 % <= 20 %

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

Flam. Liq. 2

Eye Irrit. 2

STOT SE 3

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

Danger

### Hazard statements

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

### 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.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash...thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
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.  
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.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P370+P378 In case of fire: Use for extinction.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.  
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

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

<b>Xi</b> Irritant	<b>R67</b> Vapours may cause drowsiness and dizziness.
<b>F</b> Highly flammable	<b>R36</b> Irritating to eyes.
	<b>R11</b> Highly flammable.

### 0002: L(+)-Lactic Acid

Formula: C<sub>3</sub>H<sub>6</sub>O<sub>3</sub> M.= 90,08 CAS [79-33-4]  
EC number (EINECS): 201-196-2  
**Content:** >= 2 % <= 10 %

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

Eye Irrit. 2  
Skin Irrit. 2

### Hazard Pictograms



**Signal word**

Warning

**Hazard statements**

H319 Causes serious eye irritation.

H315 Causes skin irritation.

**Precautionary statements**

P264 Wash...thoroughly after handling.

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

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.

P321 Specific treatment (see on this label).

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

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

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

**Xi** Irritant

**R36/38** Irritating to eyes and skin.

**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. 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 medical assistance.

**4.5 Swallowing:**

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

**5. Fire-fighting means****5.1 Suitable fire-extinguishing means:**

As appropriate to the environment.

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

No specific data.

**5.3 Special risks:**

Combustible.

#### **5.4 Protective equipment:**

Suitable clothing and footwear.

### **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. Neutralize with diluted sodium hydroxide.

### **7. Handling and storage**

#### **7.1 Handling:**

No special indications.

#### **7.2 Storage:**

Well sealed containers. In well ventilated premises. Do not store in metal containers.

### **8. Staff exposure/protection controls**

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

No special indications.

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

: Data not available.

#### **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. Use suitable work clothing. Wash hands and face 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: Colourless

Granulometry: N/A

Odour: Characteristic.  
pH:  
N/A  
Melting point/freezing point: N/A  
Initial boiling point and boiling range:  
N/A  
Flash point:  
N/A  
Flammability (solid, gas):  
N/A  
Upper/lower flammability or explosive limits:  
N/A  
Vapour pressure: N/A  
Vapour density: N/A  
Relative density: (15/15) 0,985  
Solubility: Miscible with 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 compounds.

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

No specific data.

### **10.4 Complementary information:**

No specific data.

## **11. Toxicological information**

### **11.1 Acute toxicity:**

: Data not available.

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

Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products. Taking the preparation' components into account, the likely dangerous characteristics are as follows: If fumes inhaled: Irritations to the respiratory tracts. Upon contact with the skin: burns Through contact with the eyes: burns conjunctivitis If swallowed: Burns in the digestive apparatus Can cause perforation in the oesophagus and stomach. shock spasms

## **12. Environmental information**

### **12.1 Toxicity:**

12.1.1 - EC50 test (mg/l):

## **12.2 Persistence and Degradability :**

12.2.1 - Test:

12.2.2. - Biotic degradation classification:

BOD5/COD Biodegradability = ----

12.2.3. - Abiotic degradation depending on pH:

12.2.4. - Observations:

Data not available.

## **12.3 Bioaccumulative potential:**

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk = ----

12.3.3. - Observations:

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.

## **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**

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

## **16. Other information**

**Other precautionary statements**

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

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

R-phphrase(s):     **R36/38** Irritating to eyes and skin.

S-phphrase(s):     **S26** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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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