



S a f e t y   D a t a   S h e e t  
According to Regulation (EC) 1907/2006  
and (EU) 453/2010

**1771 Iodine resublimed pearls**

**1. Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Name:

Iodine resublimed pearls

**CAS:** [7553-56-2]

**REACH Registration Number:** 01-2119485285-30-XXXX

**1.2 Relevant identified uses of the substance or mixture:**

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**

**2.1 Classification of the substance or the mixture.**

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

Acute Toxicity Oral cat. 4  
Acute Toxicity Dermal cat. 4  
Acute Toxicity Inhalation cat. 4  
Skin Irrit. 2  
Eye Irrit. 2  
STOT SE 3  
STOT SE 1  
Aquatic Acute 1

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

<b>Xn</b> Harmful	R20/21
<b>N</b> Dangerous for the environment	R50

## **2.2 Label elements:**

### **Hazard Pictograms**



### **Signal word**

Danger

### **Hazard statements**

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H372 Causes damage thyroid through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.

### **Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves, protective clothing, eye protection or face protection.  
P273 Avoid release to the environment.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

### **2.3 Other hazards:**

No further relevant information available.

## **3. Composition/information on ingredients**

Name: Iodine resublimed pearls

Formula: I<sub>2</sub> M.= 253,81 CAS [7553-56-2]

EC number (EINECS): 231-442-4

EC index number: 053-001-00-3

REACH Registration Number: 01-2119485285-30-XXXX

## **4. First aid measures**

### **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 soap and water. Remove contaminated clothing. In the event of irritation, seek medical assistance.

### **4.4 Eyes:**

Wash with plenty of water, keeping eyelids open. In the event of irritation, seek medical assistance.

### **4.5 Swallowing:**

Drink large amounts of water or milk. Administer a solution of medical-usage active charcoal. Do not induce vomiting. In the event of sickness, seek medical assistance.

## **5. Firefighting measures**

### **5.1 Suitable extinguishing media:**

As appropriate to the environment. Use atomized water to wash down any fumes given off.

### **5.2 Unsuitable extinguishing media:**

No specific data.

### **5.3 Special hazards arising from the substance or mixture:**

Incombustible. In the event of fire, toxic fumes may form.

### **5.4 Advice for firefighters:**

Self-contained breathing equipment. Suitable clothing and footwear.

## **6. Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures:**

Do not inhale the fumes. Ensure adequate ventilation.

### **6.2 Environmental precautions:**

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

### **6.3 Methods and material for containment and cleaning up:**

Collect up dry 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 Precautions for safe handling:**

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

### **7.2 Conditions for safe storage, including any incompatibilities:**

In a cool, dry place, away from light and well ventilated. Well sealed containers.

**Recommended storage temperature:** Room temperature.

## **8. Exposure controls/personal protection**

### **8.1 Exposure controls:**

Ensure good ventilation and renewal of the air in the premises. Do not inhale the dust.

### **8.2 Control parameters:**

VLA-EC: 0,1 ppm = 1 mg/m<sup>3</sup> DNEL Population, Dermal, short term (acute): 0.01mg/kg/24hPopulation, Dermal, long term (prolonged exposure): 0.01mg/kg/24hPopulation Inhalation, short term (acute): 1 mg/m<sup>3</sup> Population Inhalation, long term (prolonged exposure): 0,07 mg/m<sup>3</sup> PNEC Freshwater: continuous 18.13µg/lSoil: continuous 5.95mg/kgMarine water: continuous 60.01µg/lSewage treatment plant: continuous 11mg/lSediment: continuous 3.99mg/kgMarine water: Sediment, continuous 20.22mg/kg

### **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/face protection:**

Use suitable goggles.

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

Use suitable work clothing. Remove contaminated 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: solid

Colour:

N/A

Granulometry: N/A  
Odour: Piquant.  
pH:  
N/A  
Melting point/freezing point: 113,6 °C  
Initial boiling point and boiling range: 185,24 °C  
Flash point:  
N/A  
Flammability (solid, gas):  
N/A  
Upper/lower flammability or explosive limits:  
N/A  
Vapour pressure: 0,28 hPa (20 °C)  
Vapour density: N/A  
Relative density:

Insertar Aquí Grupo de repetición

4,93 g/ml  
Solubility: 0,3 g/l in water ( 20 °C )  
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 to avoid:**

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

### **10.2 Incompatible materials:**

Metals (powder). Ammonia. Antimony. Acetylene. Reducing agents.

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

In the event of fire, toxic fumes may form.

### **10.4 Chemical stability:**

Reacts with metals slowly.

## **11. Toxicological information**

### **11.1 Acute toxicity:**

LD50 oral rat : 315 mg/kg  
LD50 skin rabbit : 1.425 mg/kg (OECD 403)  
LC50 inh rat : 4.588 mg/l 4h, EPA OPPTS 870.1200  
NOAEL rat : 10 mg/kg 24h  
NOAEL rat : 0,375 mg/kg 100 d

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

Causes Irritations to the skin and eyes. Irritations to the respiratory tracts. Known or mutagenic effects: No evidence of carcinogenicity in mice. There has been no mutagenic activity of boric acid in a series of tests of short-term mutation.

## **12. Environmental information**

### **12.1 Toxicity:**

Risk for the water environment

Fish (*Oncorhynchus mykiss*) (embriolarval Stage) LC50 1.67 mg/l (96h)

Crustaceans (*Daphnia magna*) EC50 8,55 mg/l (48h)

(*Desmodesmus subspicatus*) EC50 0,13 mg/l (72h)

High toxicity in water environment.

Risk for the land environment

(*Lumbricus terrestris*) NOEC 1000 mg/kg (30 d)

(garden soil)

(*Lumbricus terrestris*) NOEC 1000 mg/kg (14 d)

(sandy soil)

(microarthropodus) NOEC 11 mg/kg (11d)

(garden soil)

(microarthropodus) LC50 41 mg/kg (11 d)

(sandy soil)

(land plant) EC50 o LC50 38 mg/kg

(argillaceous soil) (short term)

(land plant) EC10/LC10 o NOEC 10 mg/kg

(argillaceous soil) (long term)

Fowl toxicity

LC50 > 1500 mg/kg fd

(short term) (>197 mg/kg pc/ d)(13d,chicks)

NOEC 3,5 mg/kg fd

(long term) (0,525 mg/kg pc/d)(20w,turkey)

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

Only abiotic degradation is relevant.

It completely dissociates in water .

### **12.3 Bioaccumulative potential:**

Product with a low bioaccumulative potential.

### **12.4 Mobility in soil :**

Koc= 1,644 l/kg (óxicas)

Koc= 0,47 l/kg (anóxicas)

### **12.5 Assessment PBT and MPMB :**

Not applicable to inorganic substances.

### **12.6 Other adverse effects:**

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

## **13. Disposal considerations**

### 13.1 Waste treatment methods:

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. Transport information

Overland (ADR):

Technical name: IODINE

UN 3495 Class: 8 6.1 PELIG.M.AMB Packaging group: III (E)

By sea (IMDG):

Technical name: IODINE

UN 3495 Class: 8 6.1 PELIG.M.AMB Packaging group: III

By air (ICAI-IATA):

Technical name: Iodine

UN 3495 Class: 8 6.1 PELIG.M.AMB Packaging group: III

Packaging instructions: CAO 864 PAX 860

## 15. Regulatory information

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

## 16. Other information

### Other precautionary statements

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

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

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

**R50** Very toxic to aquatic organisms.

S-phrase(s): **S23c** Do not breathe vapour.

**S25** Avoid contact with eyes.

**S61** Avoid release to the environment. Refer to special instructions/safety data sheets.

Version and revision date : 5 29.10.2012

Remplaced: 15.09.2011

In respect of the previous review, changes have been made to the following sections: 2, 11, 12, 14

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.