

S a f e t y D a t a S h e e t

According to Regulation (EC) 1907/2006



2162 Iodine 0,5 mol/l *(1N)

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

1.1 Product identifier

Name:

Iodine 0,5 mol/l *(1N)

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 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

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.

Aquatic Chronic 2

Hazard Pictograms



Signal word

Warning

Hazard statements

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

P391 Collect spillage.

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

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

N Dangerous for the environment

R51

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

3. Composition/information on ingredients

Name: Iodine 0,5 mol/l *(1N)

Formula: I₂ M.= 253,81 CAS [7553-56-2]

EC number (EINECS): 231-442-4

EC index number: 053-001-00-3

Composition:

0001: Iodine resublimed pearls

Formula: I₂ 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

Content: >= 5 % <= 15 %

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

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.

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

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

Xn Harmful

N Dangerous for the environment

R20/21 Harmful by inhalation and in contact with skin.

R50 Very toxic to aquatic organisms.

4. First aid measures

4.1 General indications:

Never provide drink or induce vomiting in the event of loss of consciousness.

4.2 Inhaling:

Go out into the fresh air.

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:

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

5. Firefighting measures

5.1 Suitable extinguishing media:

As appropriate to the environment.

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:

Suitable clothing and footwear.

6. Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures:**

No special indications.

6.2 Environmental precautions:

Avoid pollution of the soil, water supplies and drains.

6.3 Methods and material for containment and cleaning up:

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 Precautions for safe handling:**

Limited shelf-life.

7.2 Conditions for safe storage, including any incompatibilities:

Well sealed containers. Room temperature. Away from light.

8. Exposure controls/personal protection**8.1 Exposure controls:**

No special indications.

8.2 Control parameters:

VLA-EC(I2): 0,1 ppm - 1 mg/m³ ,

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: liquid

Colour: Dark brown

Granulometry: N/A

Odour: Piquant.

pH: ~6,8

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: (20/4) 1,284

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 to avoid:

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

10.2 Incompatible materials:

No specific data.

10.3 Hazardous decomposition products:

Toxic gases.

10.4 Chemical stability:

No specific data.

11. Toxicological information

11.1 Acute toxicity:

LD L0 oral man : 28 mg/kg referred to the pure substance

LD50 oral rat : 14.000 mg/kg referred to the pure substance

11.2 Dangerous effects for health:

If swallowed: gastro-intestinal disorders Upon contact with the skin: irritations
Through contact with the eyes: irritations May cause allergic reaction Other
dangerous characteristics are not discarded. Take the usual precautions for
handling chemical products.

12. Environmental information

12.1 Toxicity:

- **EC50 test (mg/l):**

- **Receptor medium:**

Risk for the water environment

Risk for the land environment

- **Observations:**

Ecotoxic data not available.

12.2 Persistence and Degradability :

- **Test:**

- **Biotic degradation classification:**

BOD5/COD

Biodegradability

- **Abiotic degradation depending on pH:**

- **Observations:**

12.3 Bioaccumulative potential:

- **Test:**

- **Bioaccumulation:**

Risk

- **Observations:**

12.4 Mobility in soil :

Data not available.

12.5 Assessment PBT and MPMB :

Data not available.

12.6 Other adverse effects:

Do not allow it to enter soils or water channels.

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.

14. Transport information

Overland (ADR):

Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

UN 3082 Class: 9 CONTAM. MAR Packaging group: III (E)

By sea (IMDG):

Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

UN 3082 Class: 9 CONTAM. MAR Packaging group: III

By air (ICAI-IATA):

Technical name: Environmentally hazardous substance, liquid, n.o.s.

UN 3082 Class: 9 CONTAM. MAR Packaging group: III

Packaging instructions: CAO 964 PAX 964

15. Regulatory information

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

16. Other information

Other precautionary statements

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

R-phrases(s): **R51** Toxic to aquatic organisms.

S-phrases(s): **S61** Avoid release to the environment. Refer to special instructions/safety data sheets.

Version and revision date : 4 15.09.2011

Date published: 15.09.2011

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

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.