

**SECTION 1: Identification of the substance or mixture and of the company or undertaking****1.1. Product identification:**

Trade name: LUGOL

Iodine-iodized solution

Registry number: A registration number is not available for this substance, as the substance or its use is exempt from registration; according to Article 2 of the REACH regulation (EC) No 1097/2006, the annual tonnage does not require registration, such registration is planned for a later date or it is a mixture.

**1.2 Relevant identified uses of the substance or mixture and intended uses advised:**

For laboratory, analysis, research and fine chemistry.

**1.3 Details of the supplier of the safety data sheet**

Manufacturer/Distributor:

DELTALAB, SL

Plaza Verneda 1, Pol. Ind. La Llana (08191) Rubí (Barcelona) Spain.

Tel. (+34) 93 6995000

[www.deltalabgroup.com](http://www.deltalabgroup.com)- **Information area:** Quality Department**1.4 Emergency telephone:**

Emergencies: Single telephone number for emergency calls: 112 (EU)

Poisoning: National Institute of Toxicology (Madrid) Tel. (+34) 915620420

**SECTION 2: Hazard Identification****2.1 Classification of the substance or mixture:**

Short-term (acute) hazard to the aquatic environment (Category 1), H400

TOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

**2.2 Label elements:****Labeling according to Regulation (EC) No 1272/2008****Hazard pictograms:**

GHS08 GHS07 GHS09

**Word of warning:**

Danger

**Hazard statements:**

H372 Causes damage to organs through prolonged or repeated exposure if swallowed.

H400 Very toxic to aquatic life.

**Precautionary advice:**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P273 Avoid release into the environment.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke during using this product.

P314 Get medical attention if you feel unwell.

P501 Dispose of contents or container in accordance with local/regional/national/regional regulations.

**Additional data: -****2.3 Other dangers:**

This substance/mixture does not contain components that are considered to be persistent bioaccumulative and toxic (PBT) or very bioaccumulative and very persistent (vPvB) at levels of 0.1% or higher.

**SECTION 3: Composition / information on ingredients****3.1. Substances****IODINE:****CAS designation:**7553-56-2**Identification number: -****EC Number:-****POTASSIUM IODIDE:****CAS designation:**7681-11-0**Identification number: -****CE number:**231-659-4**SECTION 4: First aid measures****4.1. Description of first aid****In case of inhalation:**

Supply fresh air. Seek medical attention if symptoms worsen.

**In case of contact with skin:**

Wash thoroughly with water. Remove contaminated clothing.

**In case of contact with eyes:**

Wash with plenty of water, keeping the eyelids open.

**In case of ingestion:**

Rinse your mouth and then drink plenty of water. Get medical attention if you perceive any symptoms.

**4.2 Main symptoms and effects, acute and delayed:**

There is no further relevant data available.

**4.3. Indication of any medical attention and special treatment that should be given immediately:**

There is no further relevant data available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media:****Appropriate extinguishing substances:**

Fight fires with measures adapted to the surrounding environment

**5.2 Specific hazards arising from the substance or mixture:**

No information available.

**5.3 Recommendations for firefighting personnel****Special protective equipment:**

Carry put on a full protective suit.

Leeward self-contained breathing apparatus.

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

Use personal protective equipment as necessary. Make sure there is adequate ventilation. Avoid dust formation.

**6.2 Environmental precautions:**

Do not discharge into surface water or sanitary sewer system. AND Prevent it from entering the pipeline/surface water/groundwater.

**6.3 Collection/cleaning/containment methods:**

Collect with absorbent materials or, failing that, dry sand or earth and place in waste containers for subsequent disposal in accordance with current regulations.

**6.4 Reference to other sections:**

See chapter 7 for more information on safe handling.

See chapter 8 for more information on personal protective equipment.

For more information on how to dispose of the product, see chapter 13

**SECTION 7: Handling and storage****7.1 Precautions for safe handling:**

Use personal protective equipment/face protection. Make sure there is adequate ventilation.

**7.2 Conditions for safe storage, including possible incompatibilities:**

Keep containers tightly closed in a dry, cool and well-ventilated place. Protected from light.

**7.3 Specific end uses:**

No further relevant data available

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Components with permissible limit values that must be controlled at the workplace:**

The product does not contain relevant quantities of substances with limit values that require control in the workplace.

**Additional instructions:**

The lists in force at the time of preparation have been used as a basis.

**8.2 Exposure limit control:****Appropriate technical controls:**

No additional data

**Individual protection measures, such as personal protective equipment:****General protection and hygiene measures:**

Handle in accordance with good industrial hygiene and safety practices.

**Respiratory protection:**

If dust is formed, use appropriate respiratory equipment.

**Hand protection:**

Wear appropriate gloves.

Choosing the right glove depends not only on the material, but also on other quality characteristics, which may vary from one manufacturer to another.

**Glove Material Penetration Time:**

The exact time of resistance to penetration must be requested from the manufacturer of the gloves. This time must be respected.

**Penetration time of glove material:**

Wear appropriate glasses.

**Eye/face protection:**

Wear appropriate clothing.

The supplier of the protective means must specify the type of protection to be used for handling the product, indicating the type of material and, where applicable, the penetration time of said material, in relation to the quantity and duration of the protection. exposure.

**SECCIÓN 9: Physical and chemical properties****9.1 General data:**

(Depending on available information)

Appearance: Brown liquid

Smell: Faintly spicy.

pH 4.0-4.5

Boiling point :100°C

Density (20/4): 1.01  
Water soluble

**SECCIÓN 10: Stability and reactivity****10.1 Reactivity:**

No further relevant data is available

**10.2 Estabilidad química:**

Estable en condiciones normales.

**10.3 Possibility of hazardous reactions:**

No se conocen reacciones peligrosas.

**10.4 Conditions to avoid:**

No further relevant data is available

**10.5 Incompatible materials:**

No further relevant data is available.

**10.6 Hazardous decomposition products:**

In case of fire: See Chapter 5.

**SECCIÓN 11: Toxicological information****11.1 Information on the hazard classes defined in Regulation (EC) No 1272/2008****Acute toxicity:**

On the basis of the available data, the classification criteria are not met.

**Corrosion or skin irritation:**

On the basis of the available data, the classification criteria are not met.

**Severe eye injuries or eye irritation:**

On the basis of the available data, the classification criteria are not met.

**Cutaneous respiratory sensitization:**

On the basis of the available data, the classification criteria are not met.

**Germ cell mutagenicity:**

On the basis of the available data, the classification criteria are not met.

**Carcinogenicity:**

On the basis of the available data, the classification criteria are not met.

**Reproductive toxicity:**

On the basis of the available data, the classification criteria are not met.

**Organ-Specific Toxicity (STOT) – Single Exposure**

On the basis of the available data, the classification criteria are not met.

**Specific Organ Toxicity (STOT) – Repetitive Exposure**

On the basis of the available data, the classification criteria are not met.

**Aspiration Hazard:**

On the basis of the available data, the classification criteria are not met.

**11.2 Information relating to other products:****Endocrine disrupting property:**

It does not contain the substance.

**SECCIÓN 12: Información Ecológica****12.1 Toxicity:****Aquatic toxicity:**

Very toxic to aquatic organisms.

**12.2 Persistence and Degradability:**

On the basis of the available data, the classification criteria are not met

**12.3 Bioaccumulative potential:**

On the basis of the available data, the classification criteria are not met

**12.4 Mobility in soil:**

On the basis of the available data, the classification criteria are not met

**12.5 PBT and vPvB assessment:**

Not applicable.

**12.6 Endocrine disrupting properties:**

This product does not contain any known or suspected endocrine disruptors.

**12.7 Other adverse effects:****Additional environmental information:**

Very toxic to aquatic organisms.

**SECCIÓN 13: Disposal Considerations****13.1 Waste treatment methods:****Recommendation:**

Delete in accordance with official regulations.

It should not reach the sewer.

**Uncleaned packaging:****Recommendation:**

Delete in accordance with official regulations.

Packaging that cannot be cleaned should be disposed of in the same way as the substance.

**SECCIÓN 14: Transport information**

Non-hazardous product according to the criteria of the transport regulations.

**14.1 UN Number ID Number**

ADR, ADN, IMDG, IATA

Suppressed.

**14.2 Official United Nations Transport Designation****ADR, ADN, IMDG, IATA**

Suppressed.

**14.3 Transport hazard class****ADR, ADN, IMDG, IATA**

Suppressed.

**14.4 Packing Group**

Suppressed.

**14.5 Hazards to the environment**

Not applicable.

**14.6 Special precautions for users**

Not applicable.

**14.7 Bulk maritime transport**

Not applicable.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture:**

The safety data sheet complies with the requirements of Regulation (EC) No 1907/2006.

**SECTION 16: Other information**

The information is based on our current knowledge. However, this will not constitute a warranty for any specific feature of the product and will not establish a legally valid contractual relationship.

Final determination of the suitability of any product is the sole responsibility of the user.

All products may present unknown hazards and should be used with caution.

This product is for laboratory use only and for professional use only.

H400 Very toxic to aquatic organisms.

**Abbreviations and acronyms:**

*ADR: European Agreement on the transport of dangerous goods by Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).*

*IMDG: International Maritime Code for Dangerous Goods.*

*IATA: International Air Transport Association.*

*GHS: Globally Harmonized System of Classification and Labeling of Chemicals.*

*EINECS: European Inventory of Existing Commercial Chemical Substances.*

*ELINCS: European List of Notified Chemical Substances.*

*CAS: Chemical Abstracts Service (division of the American Chemical Society).*

*PBT: Persistent, Bioaccumulative and Toxic.*

*vPvB: very Persistent and very Bioaccumulative.*