

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006 (REACH), amended by Regulation (EU) 2020/878

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

- **Trade name:** GLYPHOSAN SL.
- **Active substance:** Glyphosate (as isopropylamine salt) – 360 g/l acid equivalent (480 g/l as salt).
- **Product type:** Herbicide.

1.2. Relevant identified uses of the substance or mixture and uses advised against

- **Use:** Professional use as a systemic total herbicide.

1.3. Details of the supplier of the safety data sheet

- **Manufacturer/Supplier:** Agrico Group LTD.
- **Address:** Sofia 1407, Bulgaria, boul. James Baucher 77.
- **Telephone:** +359 2 9624074.
- **Email:** agrico.group@gmail.com.

1.4. Emergency telephone number

- **Bulgaria:** +359 2 9154 233 (National Toxicology Information Center, UMBALSM "Pirogov").
- **European Emergency Number:** 112.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture



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According to Regulation (EC) No 1272/2008 (CLP):

- **Serious eye damage (Eye Dam. 1):** H318 – Causes serious eye damage.
- **Hazardous to the aquatic environment (Aquatic Chronic 2):** H411 – Toxic to aquatic life with long lasting effects.

2.2. Label elements

- **Hazard pictograms:** GHS05 , GHS09  .
- **Signal word:** DANGER.
- **Hazard statements:**
 - H318: Causes serious eye damage.
 - H411: Toxic to aquatic life with long lasting effects.
- **Precautionary statements:**
 - P273: Avoid release to the environment.
 - P280: Wear eye protection/face protection.
 - P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P310: Immediately call a POISON CENTER or doctor/physician.
 - P501: Dispose of contents/container in accordance with local regulations.
- **Additional information:**
 - EUH401: To avoid risks to human health and the environment, comply with the instructions for use.

2.3. Other hazards

- The product does not contain substances identified as endocrine disruptors or PBT/vPvB substances (based on available data).
- **Reactivity:** May react with galvanized or unlined steel to produce highly flammable hydrogen gas.



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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Product form: Soluble Concentrate (SL).

Chemical Name	CAS No.	Concentration (%)	Classification (CLP)
Glyphosate isopropylamine salt	38641-94-0	~41%	Aquatic Chronic 2, H411
Ethanediol (Ethylene glycol)	107-21-1	~12%	Acute Tox. 4, H302
Water	7732-18-5	balance	Not classified

Експортиране в Таблицы

SECTION 4: First aid measures

4.1. Description of first aid measures

- **Eye contact:** Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention.
- **Skin contact:** Remove contaminated clothing and accessories (watch, jewelry). Wash skin thoroughly with soap and water.
- **Inhalation:** Move the affected person to fresh air and keep at rest in a position comfortable for breathing.
- **Ingestion:** Do NOT induce vomiting unless directed by medical personnel. Rinse mouth with water and seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

- **Eyes:** Severe irritation, risk of serious damage.
- **Ingestion:** May cause nausea, vomiting, diarrhea, and gastrointestinal irritation.

4.3. Indication of any immediate medical attention and special treatment needed

- **Specific treatment:** This product is NOT a cholinesterase inhibitor. Treatment with atropine and oximes is not indicated. Provide symptomatic treatment.



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: Firefighting measures

5.1. Extinguishing media

- **Suitable:** Water, dry chemical, carbon dioxide (CO₂), foam.

5.2. Special hazards arising from the substance or mixture

- The product is non-flammable. Thermal decomposition may release toxic gases: carbon monoxide (CO), nitrogen oxides (NO_x), and phosphorus oxides (P_xO_y).

5.3. Advice for firefighters

- Use self-contained breathing apparatus (SCBA). Decontaminate all equipment after use.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- Use personal protective equipment (see Section 8). Avoid contact with eyes and skin.

6.2. Environmental precautions

- For large amounts: Minimize spread. Do not allow to enter drains, surface water, or groundwater.

6.3. Methods and material for containment and cleaning up

- **Small spills:** Flush the area with a small amount of water.
- **Large spills:** Absorb with earth, sand, or other inert material. Collect in suitable containers for disposal. Dig up heavily contaminated soil.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Observe personal hygiene rules. Do not eat, drink, or smoke during work. Wash hands thoroughly after handling. Clean equipment after use.

7.2. Conditions for safe storage, including any incompatibilities

- **Compatible materials:** Stainless steel, aluminum, plastic, fiberglass, glass lining.



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AGRICO GROUP le materials: Galvanized steel, unlined mild steel (reacts with the product to Innovation in Agriculture ...ogen).

- Store only in original, tightly closed containers in a place inaccessible to children. Keep away from food, drink, and animal feed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

- No specific occupational exposure limits are established for the main ingredients in the provided information.

8.2. Exposure controls

- **Eye protection:** Tight-fitting safety goggles. Ensure eye wash facilities are available near the workstation.
- **Skin protection:** Use chemically resistant gloves for prolonged contact.
- **Respiratory protection:** Not normally required under recommended use.

SECTION 9: Physical and chemical properties

- **Physical state:** Liquid.
- **Odour:** Slight.
- **Specific gravity:** 1.170 @ 20°C.
- **pH value:** 4.4 – 5.0.
- **Flash point:** Non-flammable.
- **Partition coefficient (log Pow):** <0.000 (for active substance).

SECTION 10: Stability and reactivity

- **Stability:** Stable under normal storage conditions.



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Reactions: Reacts with bases, releasing heat. Reacts with galvanized steel, hydrogen (explosive gas).

- **Hazardous decomposition products:** See section 5.2.

SECTION 11: Toxicological information

- **Acute Oral Toxicity (rat):** LD50 > 5,000 mg/kg (practically non-toxic).
- **Acute Dermal Toxicity (rat):** LD50 > 5,000 mg/kg.
- **Acute Inhalation Toxicity (rat):** LC50 (4 h) = 2.6 mg/L (aerosol).
- **Skin Irritation (rabbit):** Non-irritating.
- **Eye Irritation (rabbit):** Severely irritating; causes serious damage.
- **Sensitization (guinea pig):** Not a skin sensitizer.
- **Carcinogenicity/Mutagenicity:** No mutagenicity or carcinogenic potential identified in animal studies.

SECTION 12: Ecological information

12.1. Toxicity

- **Fish (*Lepomis macrochirus*):** LC50 (96 h) = 5.8 mg/L (moderately toxic).
- **Daphnia (*Daphnia magna*):** EC50 (48 h) = 12.9 mg/L.
- **Algae (*Selenastrum capricornutum*):** EC50 (96 h) = 2.6 mg/L.
- **Bees (*Apis mellifera*):** LD50 > 100 µg/bee (practically non-toxic).

12.2. Persistence and degradability

- **In soil:** Half-life ranges from 2 to 174 days; binds strongly to soil.
- **In water:** Half-life < 7 days.



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: Disposal considerations

- **Product:** Dispose of as hazardous industrial waste. Avoid release to sewers.
- **Container:** Empty containers must be triple-rinsed. Add the rinsing water to the sprayer tank. Do NOT re-use.

SECTION 14: Transport information

- **UN number:** UN 3082.
- **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains glyphosate).
- **Transport hazard class:** 9.
- **Packing group:** III.
- **Environmental hazards:** Yes – marine pollutant.

SECTION 15: Regulatory information

- Product complies with Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP).
- Observe all national and local regulations for handling pesticides.

SECTION 16: Other information

- This SDS does not replace the official product label.
- **H-phrases used in sections 2 and 3:**
 - H302: Harmful if swallowed.
 - H318: Causes serious eye damage.
 - H411: Toxic to aquatic life with long lasting effects.