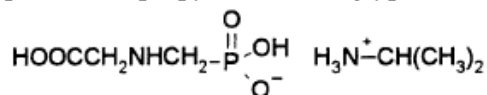




MATERIAL SAFETY DATA SHEET

1. Commercial product name and supplier

Product: **Glyphosate-isopropylammonium SL**
(Glyphosate, in the form of its isopropylamine salt)
Commercial names: Glypholux LS 36, Glypholux 48 SL, Glylux 36 SL, Glyphos
Chemical name of the a.i. *: Glycine, N-(phosphonomethyl)- compd. with 2-propanamine (1:1)(CAS)
Common name of the a.i.: Glyphosate-isopropylamine salt, glyphosate-isopropylammonium
Chemical formula of the a.i.:



Recommended use: Herbicide
Supplier: Luxembourg Industries Ltd.
General information No.: +972-3-796 4300

2. Composition/Information on ingredients

Components contributing to the hazard:

Active ingredient:
Glyphosate-isopropylamine salt, CAS No. 38641-94-0, Content 480 g/L,
Classification, N; R51/53

Solvent:
Content 80 g/L, Classification Xn; R22, Xi; R36, N; R51/53

3. Hazards identification

Environmental hazards: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult get immediate medical attention. If person is not breathing call ambulance, then, if possible give artificial respiration.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a doctor or poison control center. Do not give anything by mouth to an unconscious person.

*a.i.- active ingredient

Glyphosate-isopropylammonium SL MSDS
May 2018
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LUXEMBOURG INDUSTRIES LTD

27 Hamered St. Tel Aviv 6812509, P.O. Box 13 Tel Aviv 6100001, ISRAEL
Tel: +972 3 796 4300 ■ Fax: +972 3 510 0474 ■ E-mail: main@luxembourg.co.il ■ www.luxpam.com

Skin contact:	Take off contaminated clothing. Wash skin immediately with plenty of soap and water. Get medical advice if irritation develops or persists.
Eye contact:	Hold eyes open and rinse slowly and gently with water for several minutes. Remove contact lenses, if present, and easy to do. Continue rinsing. Get medical attention if irritation persists.
Notes to Physician:	There is no specific antidote. Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media:	Water, carbon dioxide, dry chemical and foam.
Special fire fighting procedures:	Keep out of smoke, evacuate area and fight fire from a safe distance. Cool exposed containers with water spray. Contain run-off by diking to prevent entry into sewers or waterways.
Hazardous thermal decomposition products:	Carbon monoxide, phosphorus oxides (P _x O _y) and nitrogen oxides (NO _x)
Protection of fire fighters:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. Accidental release measures

Personal precautions:	Exercise appropriate precautions to minimize direct contact with skin and eyes and to prevent inhalation.
Environmental precautions:	Do not allow material to enter streams, sewers, waterways or contact vegetation.
Methods for cleaning up:	Dike contaminated area with inert material, such as sand. Absorb spill and place in a closed and properly labeled waste drum for disposal. Flush spill residue with water.

7. Handling and storage

Handling:	Avoid contact with eye, skin and clothing. Avoid prolonged or repeated exposure.
Storage:	Keep container tightly closed. Keep in a cool dry place. Keep out of reach of children.

8. Exposure controls / Personal protection

Engineering measures:	Safety shower and eye wash. Local exhaust ventilation.
Hygiene measures:	Avoid contact with eyes, skin or clothing. Avoid breathing vapour or spray mist. Before remove gloves wash them with water and soap. Wash thoroughly with water and soap after handling. Remove contaminated clothing immediately and wash before reuse.

Occupational exposure limits: Not established

Personal protective equipment

Respiratory system: Wear approved mist respirator
Skin and body: Long sleeved shirt, long pants and boots
Hands: Chemical resistant gloves
Eyes: Chemical goggles or face shield

9. Physical and chemical properties

Physical state: Liquid
Colour: Yellow-orange
Odour: Characteristic
Molecular weight: 228.2
Density: 1.1-1.2 g/ml
pH: 4.5-6.0
Solubility in water: 1050 g/L (25°C, pH 4.3) (Glyphosate-isopropylammonium)
Flash point: Non-flammable

10. Stability and reactivity

Stability: Stable under normal storage conditions.
Hazardous reactions: Hazardous polymerizations will not occur.
Hazardous decomposition products: Carbon monoxide, phosphorus oxides (P_xO_y) and nitrogen oxides (NO_x)

11. Toxicological information

Acute toxicity*

Oral LD₅₀ (rat): >5000 mg/kg
Dermal LD₅₀ (rabbit): >5000 mg/kg
Inhalation LC₅₀ (rat): >1.3 mg/L
Eye irritation (rabbit): Slightly irritating to eyes
Skin irritation (rabbit): Non-irritating to skin
Dermal sensitization (guinea pig): Not a sensitizer

* For glyphosate-isopropylammonium technical material

12. Ecological information

Acute toxicity

Fish LC₅₀ (96h, Fathead minnows): >97 mg/L*
Algae E_bC₅₀ (72h, *Scenedesmus subspicatus*): 72.9 mg/L*
Birds LD₅₀ (Bobwhite quail): >3851 mg/kg**
Bees LD₅₀ (48h, contact and oral): >100 µg/bee**
Bio Concentration Factor: <1

* For glyphosate-isopropylammonium technical material

** For glyphosate technical material

13. Disposal considerations

Dispose of in accordance with local regulations.

14. Transport information

Not regulated for transportation

15. Regulatory information

Hazard symbol:

No hazard symbol

Risk phrases:

R52/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

S01 : Keep locked up
S02 : Keep out of reach of children
S09 : Keep container in a well ventilated place
S13: Keep away from food, drink and animal feedstuffs
S45: If swallowed, seek medical advice immediately and show this container or label.
S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

16. Other information

According to European Directives 2001/58/EC, 1999/45/EC and 67/548/EEC as amended

The information contained herein is applicable solely to the indicated product, and does not relate to any other use of this product as described. Its use is intended by persons having technical skill and at their own discretion and risk. The information has been developed from sources reliable. This information is furnished without warranty, expressed or implied, including the warranties of merchantability and fitness for a particular purpose is made with respect to the information contained herein.

Prepared: 05/2018 (EA)