



Chemical and Agricultural Industry, Research S.A.

SAFETY DATA SHEET

LYPHASE® TA-FREE 36SL

According to Annex II of the Regulation 1907/2006 EC as amended by the Regulation No 453/2010EC & 1272/2008 (CLP)

Revision: 1-2-2017

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

1.1 Identification of the Product

Designation	Herbicide (Glyphosate 36% as IPA salt 48.6%)
Trade name	LYPHASE TA-FREE 36SL

1.2 Product use

Product Use	Non selective postemergence translocated herbicide for the most persistent annual and perennial weeds
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1.3 Company details

Vioryl s.a. 28 th km Athens-Lamia National Road,19014 AFIDNES, GREECE	Tel.: +30 22950 45100
	Fax : +30 22950 45250
	Email : agrochemical@vioryl.gr

1.4 **Emergency telephone number:** In case of poisoning call: +30 210 7793777

2. HAZARDS IDENTIFICATION

2.1 Classification

Classified as hazardous material according to the Regulation (EC) 1272/2008. (Classification according to Directiveç 1999/45/EC - 67/548/EC: see paragraph 16)

2.2 Labeling

According to Regulation (EC) 1272/2008:



Warning

H phrases:

Eye irrit. Category 2:

H319: Causes serious eye irritation.

Aquatic chronic Category 2

H411: Toxic to aquatic life with long lasting effects.

P phrases:

P405+P102: Keep it locked and out the reach of children

P264: Wash hands thoroughly after handling.

P270: Do no eat, drink or smoke when using this product.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P391: Collect spillage.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

EUH401: To avoid risks to human health and the environment, comply with the instructions for use.

SP1 Do not contaminate water with the product or its container

SPe 3 To protect aquatic organisms respect an unsprayed buffer zone of 10 meters to non-agricultural land

SPe 3 To protect aquatic organisms respect an unsprayed buffer zone of 5 meters to surface water bodies.

3. **COMPOSITION / INFORMATION ON INGREDIENTS**

3.1 Nature of ingredients and concentration

COMPOSITION:	%	EC classification	
		Directives 67/548EC and 1999/45EC	Reg.1272/2008/EC
Glyphosate acid 36% Cas no 1071-83-6	36 w/v	Xi R41 N R51/53	GHS05 DANGER Eye irritant Category 1, GHS09, H318, H411
as isopropylamine salt CAS no 38641-94-0	48.6% w/v		

4. **FIRST AID MEASURES**

Eye Contact: Eye contact may cause irritation, discomfort, tearing, swelling and redness. Immediately flush/irrigate eye with copious amounts of water for at least 10 minutes. Obtain medical attention.

Skin Contact: This substance is not expected to cause prolonged or significant skin irritation. This product is not expected to cause allergic skin reaction. Wash exposed skin with water and soap.

Ingestion: Ingestion may produce irritation of the digestive tract as demonstrated by signs and symptoms of mouth membrane irritation, nausea and diarrhea. Get medical attention. Do not induce vomiting. Give water or milk to drink. Obtain medical attention if more than a small quantity has been swallowed.

Inhalation: While this material has a low volatility, exposure to vapors is unlikely, however in cases of overexposure to spray mist remove the person affected to fresh air. Obtain medical attention if ill effects occur.

5. **FIRE FIGHTING MEASURES**

5.1 If product is not directly involved in the fire

Use the best means available to extinguish the fire.

5.2 If product is involved in the fire

When strongly heated it can melt and decompose giving off carbon monoxide and dioxide, phosphorus pentoxide and nitrogen oxides.

Unusual Fire and Explosion Hazards: none

Extinguishing Media: Water, Carbon dioxide, foam, dry chemical or any class B extinguishing agent.

Special Firefighting Procedures: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency. Read the entire document.

6. **ACCIDENTAL RELEASE MEASURES**

Small spill: Soak up spilled material with paper towels and discard in trash.

Large spill: Liquid spills on floor or other impervious surfaces should be contained and absorbed with attapulgite, bentonite or other absorbent clays. Collect contaminated absorbent, place in plastic-lined metal drum and dispose of in accordance with instructions provided under Section 13. Thoroughly scrub floor or other impervious surface with a strong industrial type detergent solution and rinse with water

For liquid spills that soak into the ground, contact the applicable Health Dept. for disposal recommendations. If disposal is required then refer to Section 13 for instructions.

Leaking containers should be separated from non-leakers and either the container or its contents transferred to a drum or other non-leaking container and disposed of in accordance with instructions provided. Any recovered spilled liquid should be similarly collected and disposed.

7. **HANDLING and STORAGE**

7.1 Handling

- Wash your hands thoroughly after using this product.
- Keep away from sources of heat or fire.
- Do not blend the product with other incompatible materials.
- Avoid unnecessary release of product into the environment.
- Ensure adequate ventilation during storage.

7.2 Storage

- Store product in original packaging
- Keep the storage area clean and stable temperature. (Rather than wide temperature variation)
- In the store, make sure that the product is not close to hay, straw, wheat, oils, etc.

8. **EXPOSURE CONTROLS, PERSONAL PROTECTION**




8.1 Occupational exposure limits

No specific official limits.

8.2 Precautionary and engineering measures

No special ventilation is necessary.

8.3 Personal Protection

<i>Eyes protection:</i> Wear Safety glasses, splash proof goggles. Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area.	
<i>Hand protection:</i> Wear impervious gloves (Good resistance gives: Nitrile rubber (NBR)) Take advice to your gloves' supplier. Replace damaged gloves.	
<i>Skin and body protection</i> Suitable protecting clothes.	

9. **PHYSICAL AND CHEMICAL PROPERTIES**

Physical State:	Clear viscous amber liquid
Color:	light caramel
Odor:	Practically odorless to slight amine-like odor
pH:	5 (1% solution)
Flash Point:	Not flammable
Explosive properties	Not explosive
Oxidizing properties	Not classed as an oxidizing material
Specific gravity	1.17 Kg/dm ³ .
Solubility in water	Completely miscible

10. **STABILITY AND REACTIVITY**

10.1 Chemical Stability

Stable under normal temperatures and pressures.

10.2 Conditions to Avoid

Incompatible materials

10.3 Materials to avoid

Do not apply with a galvanized or unlined steel sprayer, or through any irrigation system.

Reacts with these materials to produce hydrogen, a highly flammable gas that could explode.

10.4 Hazardous Decomposition Products

Combustion may yield carbon monoxide and dioxide, phosphorus pentoxide and nitrogen oxides. Do not breathe smoke or fumes, Wear appropriate protective equipment

10.5 Hazardous Polymerization

Has not been reported.

11. TOXICOLOGICAL INFORMATION

11.1 General See section 3.1.

11.2 Toxicity

Data from the active substance Glyphosate:

INGESTION (oral):	LD50 rat >2000 mg/kg
SKIN (dermal):	LD50 rat < 4000 mg/kg
INHALATION:	LD50 rat >6.25mg/L air
Eye irritation:	corrosive to eyes (rabbits)
Skin irritation:	non-irritant to skin (rabbits)
Skin sensitization :	Non sensitive to skin (guinea pigs)

12. ECOLOGICAL INFORMATION

12.1 Mobility

Available data for a similar formulation indicate that the active ingredient in this product is rapidly adsorbed to soil.

Glyphosate is immobile or slightly mobile

DT 50 water: 1 and 4 days

DT 50 whole system: 27 and 146 days, 31 and 124 days.

Distribution in water/sediment systems (glyphosate) after 1 day: 47-64% in water, 31-44% in sediment; after 100 days 3% in water, 29-44% in sediment

12.2 Persistence/Degradability

Available data for a similar formulation indicate that the active ingredient in this product is readily biodegrades in soil and water

12.3 Bio-accumulation

Bio-accumulative Potential: BCF: Bluegill sunfish <1 No significant bioaccumulation is expected.

12.4 Ecotoxicity

Glyphosate:

Bird toxicity:	acute oral bobwhite quail >3,851mg/kg
Fish toxicity:	LC50 (96h) for trout 86, for bluegill sunfish 120,.
Daphnia toxicity:	LC50(48h) 780mg/L
Bee:	Oral and contact LD50 Honeybee: >100 ug/bee;

13. DISPOSAL CONSIDERATIONS

For large spills: Material collected that cannot be reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, State or local procedures.

Product disposal: Securely wrap partially filled or empty container in several layers of newspaper and discard in trash. Never pour product down any drain.

Empty container: Do not reuse container. Rinse thoroughly before discarding in trash.

14. TRANSPORT INFORMATION

Classified as hazardous substance according to the criteria of the following international transport codes IATA (Air Transport), RID (rail), ADR (road), and IMDG (sea):

14.1 Land transport ADR/RID

Environmentally hazardous substance liquid n.o.s

UN number: 3082

Hazard Class: 9

Packing Group: III



14.2 Maritime transport IMDG

Environmentally hazardous substance liquid n.o.s

UN number: 3082

Hazard Class: 9

Packing Group: III

MARINE POLLUTANT

14.3 Air transport ICAO-TI and IATA-DGR

Environmentally hazardous substance liquid n.o.s

UN number: 3082

ICAO/IATA Class: 9

Packing Group: III

15. REGULATORY INFORMATION

Labeling according to the Regulation 1272/2008EC (relating to classification and labelling of dangerous substances and preparations).

16. OTHER INFORMATION

According to the Directive 67/548EC, the Directive 1999/45EC and the Regulation 1272/2008/EC the risk numbers mentioned in the paragraph 3.1 .are provided by the following statements:

N Dangerous for the environment

Xi Irritant

R41 Risk of serious damage to eyes.

R51/53 Toxic for the aquatic organisms. May cause long-term adverse effects in the aquatic environment.

H318 Causes serious eye damage.

The information in this Safety Data Sheet is given in good faith and belief in its accuracy based on our knowledge of the substance/preparation concerned at the date of publication. It does not imply the acceptance of any legal liability or responsibility whatsoever by the Company for the consequences of its use or misuse in any particular circumstances.

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