



MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Product Name: Glyphosate 480 g/L SL

Product Class: Non selective Herbicide

Chemical family: Phosphonate

Chemical Name: N-(phosphomethyl)glycine

Chemical Formulation: C₃H₈NO₅P

Formulation: Soluble Concentrate (SL)

Supplier: Shenzhen Yufull Industries Co., Ltd

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2. HAZARDS IDENTIFICATION

Emergency Overview

Health Hazard likely routes of exposure Skin contact and inhalation

Potential Health Hazards:

Eye contact : The product may cause pain, redness and tearing.

Skin contact : The product is only slightly toxic and only slightly irritating.

Ingestion : The product only slightly toxic. The gastrointestinal discomfort with irritation in mouth, vomiting and diarrhea

Inhalation : The product is slightly toxic by this route.

2. COMPOSITION / INFORMATION ON INGREDIENTS



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Substance	CAS No.	Proportions
Glyphosate	1071-83-6	480g/L Min
Others	--	Up to 100%

4. FIRST AID MEASURES

IF INHALED : Remove person from exposure area to fresh air. If not breathing difficulty ,give artificial respiration, preferably mouth to mouth. Get medical attention.

IF ON SKIN : Take of contaminated clothing. Wash skin with plenty of soap and water. Get medical attention if irritation persists.

IF SWALLOWED : The product will cause gastrointenstinal irritation . Immediately dilute by swallowing water and milk.Get medical attention.

IF IN EYES : Hold eye open and rinse with plenty of water. If irritation continues, call a doctor.

ANTIDOTE : Give symptomatic and supportive treatment as per symptoms and cause.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Use dry chemicals. Foam, CO₂ or dry chemical. Soft stream of water fog only if needed.

FIRE AND EXPLOSION HAZARD: The essential breakdown products are carbon monoxide, carbon dioxide, phosphorus pentoxide and nitrogen oxides.

FIRE FIGHTING EQUIPMENT: Isolate fire area. Evacuate down wind. Wear self-contained breathing apparatus pressure and protective gears.. Do not smoke, gasses or vapor generated.

HAZARDOUS COMBUSTION PRODUCTS: None.

6. ACCIDENTAL RELEASE MEASURES

Clean up spills immediately, observing precautions . Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Vacuum or sweep up material and place in properly labeled disposal container. Dike to confine spill and absorb with non – combustible absorbent like clay, sand or soil. Vacuum shovel or



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pump waste in to drum and label contents for disposal. Large spills may be neutralized with bantonite or other absorbent clays. After removal, flush contaminated area thoroughly with water . Do not allow any material to run off in soil, drainage systems or bodies of water. Notify and consult with proper regulatory authorities.

7. HANDLING AND STORAGE

GENERAL PROCEDURES : Store in a cool dry , well ventilated place in original container away from children and animals. Keep away from food, animal feed , other pesticides fertilizers and drinking water. Prevent eating, drinking tobacco use and cosmetic application in areas where there is a potential for exposure to the material.

Do not mix, store or apply this product or spray solutions of this product in galvanized or unlined steel(except stainless steel) containers or spray tanks.

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROL: Use local exhaust ventilation at all processes locations where vapor or mist may be emitted. Ventilate all transport vehicles prior to unloading.

PERSONAL PROTECTIVE EQUIPMENT:

EYE AND FACE PROTECTION - Safety goggles or face shield. Storing facility should be equipped with eye wash facility and safety shower.

CLOTHING – Long sleeved shirt and long pants, shoes plus socks, chemical resistant headgear for overhead exposures.

GLOVES – Wear waterproof gloves.

USER SAFETY RECOMMENDATIONS – Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside . Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves



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before removing. As soon as possible, wash thoroughly and change in to clean clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION: Light yellow liquid.

ODOR: Odorless at 25 °C

CHEMICAL FORMULA : C₃H₈NO₅P

MOLECULAR WEIGHT : 169.07

MELTING POINT: 189+/- 0.5°C

DENSITY: 1.16-1.17g/mL

VAPOR PRESSURE: 1.31 x 10⁻²mPa (25°C)

WATER SOLUBILITY: 11.6 g/l at 25°C

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: excessive heat and fire.

MATERIALS TO AVOID : Strong oxidizing agents

HAZARDOUS POLYMERISATION: Product will not undergo polymerization.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Oral LD 50 (rat,) –	5600.00 mg/kg body weight
Dermal LD 50 (rat) -	>5000mg/kg body weight
Inhalation LC 50 (rat) -	>4.98 mg/l of air
Eye Irritation (rabbit) –	Irritant
Skin Irritation (rabbit) –	Non irritant
Sensitization (guinea pig) –	Non-sensitiser



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12. ECOLOGICAL INFORMATION

Environmental Summary –

Glyphosate oral toxicity to Bob-white Quail >3851 mg/kg body weight

Glyphosate Rainbow trout 86, bluegill sunfish 120 LC50 (96h).

Glyphosate is not toxic to bees.

13. DISPOSAL CONSIDERATION

Waste – Open dumping or burning of this pesticide or its packing is prohibited. Dispose of in accordance with applicable Federal, State, local laws and regulations.

Container – plastic containers do not re-use the container. Dispose of empty containers in a sanitary landfill or incineration so as to avoid environmental or water pollution.

DO NOT CUT OR WELD ON OR NEAR THIS CONTAINER

14. TRANSPORT INFORMATION

Road and Rail Transport

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): The ingredients of this product are listed on the TSCA



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inventory or are exempt.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

302: Not applicable.

311/312 HAZARD CATEGORIES: Immediate Hazard

313 REPORTABLE INGREDIENTS: Not applicable.

CA PROPOSITION 65: None

16. OTHER INFORMATION

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of the how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made the user should contact the company.

END OF MSDS