



**江苏好收成韦恩农化股份有限公司**

**JIANGSU GOOD HARVEST-WEIEN AGROCHEMICAL CO.,LTD.**

Http://www.good-harvest.cn

E-mail: GH@good-harvest.cn

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## MATERIAL SAFETY DATA SHEET

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### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** FREEDOM GLYPHOSATE POTASSIUM SALT 540 LIQUID HERBICIDE

**Chemical Type:** N-(phosphonomethyl)-glycine potassium; herbicide

**Manufacturer:** JIANGSU GOOD HARVEST-WEIEN AGROCHEMICAL CO.,LTD.

Add: Laogang, Qidong City, Jiangsu, China 226221

Tel: 0086-513-83883399

Fax:0086-513-83883309

E- mail: GH@good-harvest.cn

www.good-harvest.com

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### 2. COMPOSITION INFORMATION

**Ingredient:** N-(phosphonomethyl) glycine potassium, Glyphosate potassium

**Percent:** 540g/L

**CAS Number:** glyphosate 1071-83-6

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### 3. HAZARDS IDENTIFICATION

#### Symptoms of Acute Toxicity

Ingestion may cause gastrointestinal discomfort with irritation of the mouth. Nausea, vomiting and diarrhoea are also symptomatic. Shock is a feature of severe poisoning.

**Swallowed:** May be harmful if swallowed

**Eye:** May cause irritation

**Skin:** Unlikely to cause harm

**Inhaled:** Unlikely to be inhaled. May cause harm if inhaled in large amounts.

**Symptoms of Chronic Exposure:** Not available

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### 4. FIRST AID MEASURES

**In case of poisoning by any route contact a doctor or Poisons Information Centre**

**Swallowed:** If large quantities are ingested, drink plenty of water. Immediately contact a doctor or Poisons Information Centre.

**Eye:** Flush eyes with large quantities of water for 15 minutes. Seek medical advice.

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**Skin:** If contact occurs remove contaminated clothing and wash affected areas thoroughly with soap and water. Consult a doctor if irritation persists.

**Inhaled:** Move affected person to fresh air and keep at rest until recovered.

**Advise to Doctor:** No specific antidote is available. If poisoning is suspected apply symptomatic therapy. Contact Poisons Information Centre for more information.

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## 5. FIRE FIGHTING MEASURES

**Dangerous Goods Class:** None allocated

**Extinguishing media:** Fine water spray or foam.

**Unsuitable extinguishing media:** None

**Special exposure hazards:** None

**Fire and Explosive Properties:** May form hazardous decomposition products

**Flammability:** Non-flammable

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## 6. ACCIDENTAL RELEASE MEASURES

**In Case of Spill or Leak:** Control the spill at its source. Contain the spill to prevent it from spreading, contaminating soil, or entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Sweep up material and place in a compatible disposal container. Scrub area with a hard water detergent. Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposal.

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## 7. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION,



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## PACKAGING AND USE OF THIS PRODUCT.

### FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Ingestion: Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact: Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Skin Contact: Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

Inhalation: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. Always ensure adequate ventilation. An organic vapour cartridge may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits.

#### Personal Protection Requirements:

Respiratory Protection (Vapour) Not required

Eye/Face Protection Required

Skin Protection Advised

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Molecular Weight (M. Wt.):** Glyphosate = 169.1

**Color:** *Yellow*

**Physical State:** *Liquid*

**Odor:** *None*

**Flash point:** *Does not flash*

**Explosivity:** *Not explosive*

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## 10. STABILITY AND REACTIVITY

**Stability:** Stable

**Conditions to avoid:** Do not store in mild steel or galvanised steel

**Materials to avoid:** As above

**Hazardous Decomposition Products:** May be formed at high temperatures



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**Hazardous Polymerisation:** Will not occur

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## 11. TOXICOLOGICAL INFORMATION

**LD50 Information** (based on active ingredient) Oral LD50 >2500 mg/kg (rat)  
Dermal LD50 >2000 mg/kg (rat)  
Inhaled LC50 >1.3 mg/L (rat)

**Irritation:** Moderate –irritation to eye (rabbit)  
non –irritation to Skin (rabbit)

**Sensitisation:** No sensitizer to mouse

**Mutagenicity:** Not a known mutagen

**Reproductive Toxicity:** Not a known teratogen

**Carcinogenicity:** Not a known carcinogen

**Toxicological Classification :** Slight Hazardous (WHO Toxicological Classification)

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## 12. ECOLOGICAL INFORMATION

**Sub-chronic toxicity:** Oral LD50>1000 mg/kg (rat)  
Dermal LD50>1000 mg/kg (rabbit)

**Toxicity to Birds:** Oral LD50 > 4640 mg/kg (Bobwhite quail)

**Toxicity to Bees:** Oral LD50 > 100 µg/bee

**Toxicity to Fish:** 96–hr LC50 >15 mg/L (Rainbow trout)

**Mobility:** Relatively immobile

**Persistence:** DT50 3 - 174 days glyphosate

**Bioaccumulation:** Does not bioaccumulate

**Ecotoxicity:** The results of single exposure (acute) environmental toxicity studies indicate that glyphosate is no more than slightly toxic to a variety of fish and invertebrates.

**Other adverse Effects:** N/A

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## 13. DISPOSAL CONSIDERATIONS

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to regional or local body bylaws.



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## 14. TRANSPORT INFORMATION

UN Number: None Allocated

UN Shipping Name: None Allocated

UN Classification: None Allocated

UN Packing Group: None Allocated

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## 15. REGULATORY INFORMATION

Follow all local/regional/national/international regulations

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## 16. OTHER INFORMATION

Other Information: not available

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***THE END OF MSDS***