

# Material Safety Data Sheet

## MPOWER Good HARVEST®

NewAgco, Inc.  
Orena, St. Lawrence Main Road  
Christ Church, Barbados BB15029

Date of MSDS Preparation (Y/M/D): 2015-01-30

In Case of Emergency from Spill Call 1-613-996-6666 (CANUTEC)  
For further information contact: 1-877-362-3276

### SECTION - 1: PRODUCT IDENTIFICATION

<b>Product Identifier</b>	: MPOWER Good HARVEST® glufosinate herbicide
<b>Active Ingredient</b>	: Glufosinate-Ammonium (150 g/L)
<b>CAS Number</b>	: 77182-82-2
<b>Product Use</b>	: A herbicide used as a harvest aid (desiccant). Please refer to product label for further details.

### SECTION - 2: COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical characterization:** phosphinic herbicide

Ingredient Name	CAS Number	Concentration (g/l)
Glufosinate-Ammonium	77182-82-2	150
Inert Ingredients	-	To 1 liter

### SECTION - 3: HAZARD IDENTIFICATION

Note: please refer to Section 11 for detailed toxicological information.

Emergency Overview

Warning.  
Harmful if swallowed or absorbed through skin.  
Causes eye irritation.

May cause skin irritation. Do not get in eyes, on skin, or on clothing. Avoid breathing spray mist.

Physical State

Liquid

Odor

aromatic

Appearance

blue to blue green

Exposure routes

Skin Absorption, Ingestion, Inhalation, Eye contact

Immediate Effects

Eye

Causes eye irritation. Do not get in eyes.

Skin

Harmful or fatal if absorbed through the skin. May cause skin irritation. Do not get on skin or clothing.

Ingestion

Harmful if swallowed. Do not take internally.

Inhalation

Avoid breathing spray mist.

Chronic or Delayed

This product or its components may have target organ effects. This product or its components may have long term (chronic) health effects.

Long-Term

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## SECTION - 4: FIRST AID MEASURES

**Eyes:** Flush with plenty of water. Get medical attention if irritation persists.

**Skin:** Remove contaminated clothing. Wash skin immediately with plenty of soap and water. Get medical attention if irritation occurs.

**Ingestion:** Rinse mouth thoroughly with plenty of water. Do not induce vomiting. Get medical attention immediately.

**Inhalation:** Remove individual to fresh air. Get medical attention if breathing difficulty develops.

**Special notes to a physician:** Endotracheal intubation and gastric lavage should be performed as soon as possible, followed by charcoal and sodium sulfate administration. Respiratory, Cardiac and Central Nervous Systems should be monitored with particular regard to ECG, electrolyte balance (especially for potassium) and signs of increased intracranial pressure. In the event of a large exposure, dialysis and/or hemoperfusion should be conducted as soon as possible to eliminate the compound from the body. In the event of convulsions, administer Phenobarbital or diazepam. There is no specific antidote. Glufosinate- ammonium does not inhibit cholinesterase; thus atropine and 2-PAM are contraindicated. Recovery is normally spontaneous, usually within 48h.

## SECTION - 5: FIRE FIGHTING MEASURES

**Small fires:** dry chemical, carbon dioxide.

**Large fires:** Foam or water. Move containers from fire area if without risk. Cool containers with water from maximum distance.

**Special equipment for the protection of firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear.

**Specific methods of fire-fighting:** Keep upwind. Isolate hazard area. Avoid inhalation of smoke and fumes. Use water or foam to reduce fumes. Do not touch spilled material. If possible, remove containers from area. Extinguish only if flow can be stopped. Use flooding amounts of water as a fog. Cool containers with flooding amounts of water from as far a distance as possible. Avoid breathing vapors.

## SECTION - 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Use proper protective equipment to minimize personal exposure.

**Environmental precautions:** Take all necessary action to prevent and to remedy the effects of the spill.

**Small spill:** absorb with an inert absorbent material such as granular clay, saw dust or pet litter. Sweep up carefully while avoiding the formation of a dust cloud. Place in an approved chemical waste container for disposal. Rinse spill area with small amount of soapy water. Contain and absorb the rinsate with inert absorbents and place into the same disposal container. Area can be washed with water to remove the last trace residue. Do not allow water to contaminate water supplies or sewers.

**Large spill:** Eliminate all ignition sources. Stop leak if you can do so without coming into contact with spilled material. Dike far ahead of liquid spill for later disposal. All equipment used to clean up spill should be grounded. Prevent entry into waterways, sewers, basements or confined areas. Inform appropriate authorities immediately if contamination occurs.

## SECTION - 7: HANDLING AND STORAGE

**Handling:** Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash the

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outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

**Specific safe handling advice:** Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

**Precautions:** May be fatal if absorbed through the skin. Harmful if swallowed or inhaled. A moderate eye irritant. A mild skin irritant. Do not get in eyes, on skin, or on clothing. Avoid breathing vapor or spray mist. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

**Storing procedures:** Do not use or store near heat or open flame. Do not contaminate water, food, or feed by storage or disposal. Store in original container. Store product in a secure storage area.

## SECTION - 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Control airborne concentration below the exposure guidelines. Handle only in ventilated area.

**Eye/face protection:** Goggles or face shield.

**Skin protection:** Impermeable rubber gloves (such as neoprene or PVC).

**Respiratory protection:** In case of spill, leak, or emergency, use approved chemical cartridge-type respirator.

**Other/general protection:** Hat, impermeable pants and shirts, and waterproof boots.

**For applicators and handlers (agricultural uses):** Long-sleeved shirts and long pants, chemical-resistant gloves, shoes plus socks and protective eyewear.

## SECTION - 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Blue to bluish-green liquid.

**Odor:** Weakly pungent.

**pH:** 5.0-7.5

**Density:** 1.07±0.02 g/ml (at 20°C)

## SECTION - 10: STABILITY AND REACTIVITY

**Stability:** Stable.

**Hazardous polymerization:** Will not occur.

## SECTION - 11: TOXICOLOGICAL INFORMATION

### Acute studies

**Oral LD<sub>50</sub> (rat):** >5000 mg/kg.

**Dermal LD<sub>50</sub> (rat):** > 2150 mg/kg.

**Skin irritation (rabbit):** non-irritating.

**Eye irritation (rabbit):** non-irritating.

**Sensitization (Guinea pig):** not a skin sensitizer.

## SECTION - 12: ECOLOGICAL INFORMATION

### Acute and prolonged toxicity to fish:

LC<sub>50</sub> (96 h) for rainbow trout 710, carp, bluegill sunfish, golden orfe >1000 mg/l.

**Acute toxicity to aquatic invertebrates:** Daphnia LC<sub>50</sub> (48 h) 560-1000 mg/l.

**Toxicity other non mammalian terrestrial Species:**

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Dietary LC<sub>50</sub> (8 d) for Japanese quail >5000 mg/kg.

Not hazardous to bees; LD<sub>50</sub> >100 µg/bee.

Not toxic to beneficial arthropods.

## SECTION - 13: DISPOSAL CONSIDERATIONS

**Waste Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Empty containers should be triple rinsed (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by Authorities, by burning. If burned, stay out of smoke.

## SECTION - 14: TRANSPORT INFORMATION

<b>ADNR</b>	Not dangerous goods
<b>ADR</b>	Not dangerous goods
<b>GGVE</b>	Not dangerous goods
<b>GGVS</b>	Not dangerous goods
<b>IATA_C</b>	Not dangerous goods
<b>IATA_P</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>RID</b>	Not dangerous goods

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

## SECTION - 15: REGULATORY INFORMATION

WHMIS classification for product: Exempt

This MSDS has been prepared in accordance with WHMIS requirements, but the data are presented under 16 headings.

Other regulations; restrictions and prohibitions

Pest Control Products (PCP) Act Registration No.: 30761

## SECTION - 16: OTHER INFORMATION

This information is provided in good faith but without express or implied warranty. Buyer assumes all responsibility for safety and use not in accordance with label instruction.