

# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** CLEAN FIELD 41% PLUS

**DESCRIPTION:** A liquid herbicide.

**EPA Reg. No.:** 83411-1

**COMPANY IDENTIFICATION:**

MID AMERICA DISTRIBUTING LLC

820 EAST 10TH STREET

FAIRMONT MN 56031

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>Chemical Name</u>	<u>Formula</u>	<u>CAS #</u>	<u>Composition</u>
Glyphosate	<i>N-(phosphonomethyl) glycine, isopropylamine</i>	C <sub>6</sub> H <sub>17</sub> N <sub>2</sub> O <sub>5</sub> P	38641-94-0	41.0%

## 3. HAZARD IDENTIFICATION

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS:** Causes moderate eye irritation. Harmful if swallowed or inhaled. This product is considered to be relatively nontoxic to dogs and other domestic animals; however, ingestion of this product or large amounts of freshly sprayed vegetation may result in temporary gastrointestinal irritation (vomiting, diarrhea, colic, etc.). If such symptoms are observed, provide the animal with plenty of fluids to prevent dehydration. Call a veterinarian if symptoms persist for more than 24 hours.

**POTENTIAL PHYSICAL HAZARDS:** May react with metals such as galvanized or mild steel to produce hydrogen gas, potentially forming a highly combustible gas mixture.

## 4. FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

## 5. FIRE-FIGHTING MEASURES

Flash point: Will not flash

Flammable Limits (LFL-UFL): N/A

Fire and Explosion Hazards: Product may generate irritating or toxic gasses through thermal decomposition.

Means of Extinction: Use water spray, foam or dry chemical.

Fire Fighting Instructions: Evacuate area and fight fire from a safe distance. Approach from upwind to avoid hazardous vapors and decomposition products. A foam or dry chemical fire extinguishing system is preferred to prevent environmental damage from excessive water runoff. If water is used, avoid heavy hose streams. If possible, dike and collect water used to fight fire to prevent/minimize run off.

Firefighting Equipment: Self-contained breathing apparatus with full facemask and full bunker gear.

Hazardous Combustion Products: Carbon monoxide, nitrogen oxides, phosphorous oxides.

## **6. ACCIDENTAL RELEASE MEASURES**

Clean up spills immediately. Isolate and post spill area. Wear protective clothing and personal protective equipment as prescribed in Section 8 "Exposure Controls/Personal Protection". Keep unprotected persons and animals out of area.

**SMALL SPILL:** Absorb spill with inert material such as dry sand, vermiculite or fuller's earth, then place in a chemical waste container.

**LARGE SPILL:** Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify and scrape up for disposal. After removal, scrub the area with detergent and water and neutralize with dilute alkaline solutions of soda ash or lime.

## **7. HANDLING AND STORAGE**

**Keep out of reach of children and animals.** Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal. Wash thoroughly after handling this product. Store above 10°F (-12°C) to keep product from crystallizing.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Engineering Controls:** To keep exposure to airborne contaminants below exposure limits, proper ventilation is required when handling or using this product. Local mechanical exhaust ventilation may be required. Facilities storing or using this material should be equipped with an eyewash facility and a safety shower.

**Eyewear:** Safety goggles are recommended when mixing, loading or cleaning equipment.

**Clothing:** All pesticide handlers must wear a long-sleeved shirt and long pants and shoes plus socks.

**Gloves:** Waterproof gloves are recommended when mixing, loading or cleaning equipment.

**NOTE:** Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Clear yellow to amber liquid

**Odor:** Odorless

**pH:** 4.5 – 5.5

**Specific Gravity:** 1.173 g/ml

**Solubility in Water:** Emulsifies

## **10. STABILITY AND REACTIVITY**

**CONDITIONS TO AVOID:** Avoid temperatures above 115°F (46°C) and below 25°F (-5°C)

**CHEMICAL STABILITY:** Product is normally stable. However, product may decompose if heated.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Heat and fire may result in thermal decomposition and the release of nitrogen oxides, phosphorous oxides and carbon monoxide.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Strong oxidizers and bases, mild and galvanized steel.

**POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE ORAL TOXICITY

Oral LD<sub>50</sub> (rat): > 5,000 mg/kg

### ACUTE DERMAL TOXICITY

Dermal LD<sub>50</sub> (rat, male): > 5,000 mg/kg

### ACUTE INHALATION TOXICITY

Inhalation LC<sub>50</sub> (rat): > 2.5 mg/L

### EYE IRRITANT

Rabbit – Moderate

### SKIN IRRITATION

Rabbit – Mild

### SENSITIZATION

Guinea pig – Non-Sensitizing

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

### CARCINOGENICITY:

ACGIH: Not listed

IARC: Not listed

NTP: Not listed

OSHA: Not listed

MUTAGENIC DATA: No evidence of mutagenic effects during *in vivo* and *in vitro* assays.

## 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

### MAMMILIAN TOXICITY

This product is considered to be relatively nontoxic to dogs and other domestic animals; however, ingestion of this product or large amounts of freshly sprayed vegetation may result in temporary gastrointestinal irritation (vomiting, diarrhea, colic, etc.). If such symptoms are observed, provide the animal with plenty of fluids to prevent dehydration. Call a veterinarian if symptoms persist for more than 24 hours.

### FISH TOXICITY

96 hour LC<sub>50</sub>, Rainbow trout: 8.2 µg/L (technical)

96 hour LC<sub>50</sub>, Bluegill: 5.8 µg/L (technical)

### AVIAN TOXICITY

Oral LD<sub>50</sub>, Bobwhite quail: > 3,800 mg/kg (technical)

BEE TOXICITY: Non-toxic.

## 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures. Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed.

### CONTAINER DISPOSAL:

**Nonrefillable Containers (1, 2.5, 30 & 55 gallon):** Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

**Nonrefillable Container (less than five gallons):** Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drop. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**Nonrefillable Container (greater than five gallons):** Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

**Pressure Rinse as follows (all sizes):** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application

equipment or mix tank or collect rinsate for later use for disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**Refillable Container (250 gallon & bulk):** Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

#### **14. TRANSPORT INFORMATION**

DOT PROPER SHIPPING NAME: Not regulated by DOT.

MARINE POLLUTANT: No

DOT EMERGENCY RESPONSE GUIDE: N/A

#### **15. REGULATORY INFORMATION**

FIFRA –

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act. The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide.

OSHA HAZARD COMMUNICATION STANDARD STATUS: Not Regulated

SARA Title III – Section 302 Extremely Hazardous Substances

Not listed

SARA Title III – Section 311/312 Hazard Categories

Immediate

SARA Title III – Section 312 Threshold Planning Quantity

The threshold planning quantity (TPQ) for this product treated as a mixture is 10,000 lbs. This product contains no ingredients with a TPQ of less than 10,000 lbs.

SARA Title III – Section 313 Reportable Ingredients

None

CERCLA –

None

CALIFORNIA PROP 65 STATUS –

This product does not contain any chemicals known to the State of California to cause cancer or reproductive harm.

#### **16. OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

##### **DISCLAIMER:**

This Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the Directions for Use label booklet ("Directions") when used in accordance with those Directions under the conditions described therein. NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. To the extent consistent with applicable law, this warranty is subject to the conditions and limitations stated on this labeling. Buyer and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise. To the extent consistent with applicable law, buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, failure of this product to control weed biotypes which develop resistance to glyphosate, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation. To the extent consistent with applicable laws, this Company does not warrant any product reformulated or repackaged from this product except in accordance with this Company's stewardship requirements and with express written permission from this Company. For in-crop (over-the-top) uses on Roundup Ready® crops, crop safety and weed control performance are not warranted by Mid America Distributing LLC when this product is used in conjunction with "brown bag" or "bin run" seed saved from previous year's production and replanted. TO THE EXTENT CONSISTENT WITH APPLICABLE LAWS, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OF DAMAGES RESULTING FROM THE USE OR HANDLING OF

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Effective Date: August 1, 2012