

# MATERIAL SAFETY DATA SHEET

Emergency Call: 1-800-308-5391

Effective Date: October 17, 2008

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Alligare MOJAVE 70 EG

**DESCRIPTION:** A dispersible granule herbicide.

**EPA Reg. No.:** 81927-25

### COMPANY IDENTIFICATION:

Alligare, LLC  
13 North 8<sup>th</sup> Street  
Opelika, AL 36801

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Chemical Name	Formula	CAS #	Composition
Imazapyr	(±)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid	C <sub>13</sub> H <sub>15</sub> N <sub>3</sub> O <sub>3</sub>	81334-34-1	7.78%
Diuron	N'-(3,4-dichlorophenyl)-N,N-dimethylurea	C <sub>9</sub> H <sub>10</sub> Cl <sub>2</sub> N <sub>2</sub> O	330-54-1	62.22%

## 3. HAZARD IDENTIFICATION

In case of an emergency that endangers life or property and involves this product, call 800-434-9300 day or night.

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS:** Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist.

**ENVIRONMENTAL HAZARDS:** This product is toxic to plants. Drift and run-off may be hazardous to plants in water adjacent to treated areas.

## 4. FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies involving this product, call 1-800-308-5391.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**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.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

## 5. FIRE-FIGHTING MEASURES

**Flash point:** N/A

**Flammable Limits (LFL-UFL):** N/D

**Fire and Explosion Hazards:** May thermally decompose in fire releasing irritating and toxic fumes.

**Extinguishing Medium:** Foam, CO<sub>2</sub>, dry chemical, or water spray.

**Fire Fighting Equipment:** Firefighters should be equipped with self-contained positive pressure breathing apparatus and turnout gear.

**Fire Fighting Instructions:** Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

**NFPA Ratings:** Health – 1 / Flammability – 1 / Reactivity - 0

## 6. ACCIDENTAL RELEASE MEASURES

Clean up spills immediately observing the precautions in Section 8 of this MSDS. Isolate the hazard area and keep unnecessary and unprotected personnel from entering. Prevent material from contaminating soil or from entering sewage and drainage systems and bodies of water.

**Large Spill:** Prevent spills from entering sewers, waterways or low areas. Diuron and imazapyr are injurious to plants at extremely low concentrations. Non-target plants may be adversely affected from drift and run-off. Call CHEMTREC at (800) 424-9300.

**Small Spills:** Avoid dust formation and avoid breathing dust. Use recommended protective equipment and carefully sweep up spilled material, placing it in a covered container for reuse or disposal. Scrub the contaminated area with soap and water followed by a water rinse. Use dry absorbent material to absorb and collect wash solution for proper disposal. Contaminated soil may have to be removed and disposed.

## 7. HANDLING AND STORAGE

Avoid breathing dust or vapor. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** To avoid exceeding exposure limits, handle only with adequate ventilation. Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

**Protective Clothing:** Chemical resistant gloves made of any waterproof material  $\geq$  14 mils. Long-sleeved shirt, long pants and shoes plus socks. A NIOSH approved particulate filtering respirator equipped with N, R, or P class filter media. The respirator should have a NIOSH approval number prefix "TC-84A".

**General:** Wash thoroughly with soap and water after handling. Discard clothing and other absorbent materials that have been heavily contaminated with this product; do not reuse them. Follow the manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Off-white pellets

**Odor:** Faint Odor

**pH:** 3.1 – 3.4

**Bulk Density (Pour):** 0.578 g/ml (36.083 lbs/ft<sup>3</sup>)

**Bulk Density (Tap):** 0.638 g/ml (39.829 lbs/ft<sup>3</sup>)

**Solubility:** Fully soluble

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Extreme Temperatures and prolonged exposure to extreme heat. All sources of ignition. Electro-static discharges.

**CHEMICAL STABILITY:** Stable but may decompose if heated.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None when stored and handled as prescribed / indicated. Refer to Section 5 for hazardous combustion products.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Liquid solutions containing this product must not be stored in unlined steel (except stainless steel) containers or tanks.

**POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE ORAL TOXICITY

LD<sub>50</sub> (rat): > 2,000 mg/kg

### ACUTE DERMAL TOXICITY

LD<sub>50</sub> (rat): > 2,000 mg/kg

### ACUTE INHALATION TOXICITY

LC<sub>50</sub> (rat): > 5.1 mg/L

**EYE IRRITATION:** Mildly Irritating

**SKIN IRRITATION:** Mildly irritating

**SKIN SENSITIZATION:** Not a contact sensitizer

### CARCINOGENICITY:

**ACGIH:** Not Listed

**IARC:** Not Listed

**NTP:** Not Listed

**OSHA:** Not Listed

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

**REPRODUCTIVE TOXICITY:** No evidence in animal studies.

## 12. ECOLOGICAL INFORMATION

This product is toxic to plants. For terrestrial use only. Do not apply directly to water, or where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate. Apply this product only as specified on this label.

### TOXICOLOGICAL INFORMATION FOR ACTIVE INGREDIENT DIURON

Rainbow Trout (LC<sub>50</sub>): 5.6 mg/L

Mysid Shrimp (LC<sub>50</sub>): 1.1 mg/L

Green Algae (EC<sub>50</sub>): 0.0233 mg/L

Swollen Duckweed (EC<sub>50</sub>): 0.018 mg/L

Bobwhite Quail (LC<sub>50</sub>): 1,730 mg/kg

Japanese Quail (LC<sub>50</sub>): > 5,000 mg/kg

Mallard Duck (LC<sub>50</sub>): > 5,000 mg/kg

Honey Bee (LD<sub>50</sub>): Not toxic

### TOXICOLOGICAL INFORMATION FOR ACTIVE INGREDIENT IMAZAPYR

Rainbow Trout (LC<sub>50</sub>): > 100 mg/L

Daphnia Magna (EC<sub>50</sub>): > 100 mg/L

Green Algae (EC<sub>50</sub>): 71 mg/L

Mallard Duck (LC<sub>50</sub>): > 5,000 ppm

Honey Bee (LD<sub>50</sub>): > 100 ug / bee

### 13. DISPOSAL CONSIDERATIONS

**Do not contaminate water, food or feed by disposal.**

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Completely empty bag, then dispose of in an approved sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### 14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: Not Regulated by DOT

REPORTABLE QUANTITY: 100 lbs.

MARINE POLLUTANT: Not a marine pollutant

### 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.

#### **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**

N/A

#### **SARA Title III – Section 313 Reportable Ingredients**

Diuron (62.22%) - CAS No. 330-54-1

#### **CERCLA –**

<u>Chemical Name</u>	<u>CAS Number</u>	<u>RQ</u>
Diuron	330-54-1	100 lbs.

#### **CALIFORNIA PROP 65 STATUS –**

This product contains a chemical (Diuron) known to the State of California to cause cancer.

### 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:**

THE INFORMATION IN THIS MSDS IS BASED ON DATA AVAILABLE AS OF THE REVISION DATE GIVEN HEREIN, AND BELIEVED TO BE CORRECT. CONTACT ALLIGARE, LLC TO CONFIRM IF YOU HAVE THE MOST CURRENT MSDS. JUDGMENTS AS TO THE SUITABILITY OF THE INFORMATION HEREIN FOR THE INDIVIDUAL'S OWN USE OR PURPOSES IS NECESSARILY THE INDIVIDUAL'S OWN RESPONSIBILITY. ALTHOUGH REASONABLE CARE HAS BEEN TAKEN IN THE PREPARATION OF SUCH INFORMATION, ALLIGARE, LLC EXTENDS NO WARRANTIES, MAKES NO REPRESENTATIONS, AND ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OR SUITABILITY OF SUCH INFORMATION FOR APPLICATION TO THE INDIVIDUAL'S PURPOSES OR THE CONSEQUENCES OF ITS USE. This Material Safety Data Sheet (MSDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABELING (attached to and accompanying the product container). This MSDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.