

# MATERIAL SAFETY DATA SHEET

Emergency Phone: NPIC 1-800-858-7378

Effective Date: June 7, 2010

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Alligare 2,4-D LV 6

**DESCRIPTION:** A liquid herbicide.

EPA Reg. No. 81927-39

### COMPANY IDENTIFICATION:

Alligare, LLC  
13 North 8<sup>th</sup> Street  
Opelika, AL 36801  
888-255-4427

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>Chemical Name</u>	<u>Chemical Formula</u>	<u>CAS Number</u>	<u>Composition</u>
2,4-D 2EHE	2,4-Dichlorophenoxyacetic Acid, Isoctyl (2-ethylhexyl ester)]	C <sub>16</sub> H <sub>22</sub> Cl <sub>2</sub> O <sub>3</sub>	1928-43-4	88.4%
Naphthalene		C <sub>10</sub> H <sub>8</sub>	91-20-3	< 0.14%

## 3. HAZARD IDENTIFICATION

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS:** Prolonged or frequent repeated skin contact may cause allergic reactions in some individuals. Harmful if swallowed. Causes moderate eye irritation.

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to fish and aquatic invertebrates and may adversely affect non-target plants. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This chemical has properties and characteristics associated with chemicals detected in groundwater.

**HAZARDOUS DECOMPOSITION PRODUCTS:** This product may form toxic gases such as hydrogen chloride and oxides of carbon and nitrogen when thermally decomposed.

## 4. FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 seven days a week, 6:30AM to 4:30PM Pacific time, or your poison control center at 1-800-222-1222.

**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 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

## 5. FIRE-FIGHTING MEASURES

**Flash point (Closed Cup):** 220°F (104°C)

**Flammable Limits (LFL-UFL):** Not determined.

**Fire and Explosion Hazards:** Not a fire or explosion hazard.

**Means of Extinction:** Water fog, foam, dry chemical or CO<sub>2</sub>

**Fire Fighting Instructions:** Evacuate nonessential personnel to prevent exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area and equipment until decontaminated. Dike and collect any runoff to prevent entry to drains or water bodies.

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

**Hazardous Combustion Products:** Thermal decomposition may produce toxic gasses such as hydrogen chloride and oxides of carbon and nitrogen.

**NFPA Ratings:** Health – 2 / Flammability – 1 / Reactivity – 0

## 6. ACCIDENTAL RELEASE MEASURES

Clean up spills immediately observing the precautions in Section 8 of this MSDS. Control spill at the source and prevent material from entering soil, sewers, waterways or low areas. If necessary, dike spill using absorbent or impervious materials such as clay or sand. Recover materials for reuse or disposal by pumping any free liquid into appropriate closed containers, do not flush to drain.

Large spills to soil may require removal of topsoil with the affected area removed and placed into appropriate containers for disposal. Large spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

## 7. HANDLING AND STORAGE

Keep out of reach of children. Do not get in eyes or on clothing, avoid contact with skin and avoid inhaling vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Always store pesticides in a secured warehouse or storage building. Store at temperatures above 32°F. Open containers in well-ventilated areas. Keep container tightly sealed when not in use. Do not store near open containers of fertilizer, seed or other pesticides.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Handle only with adequate ventilation. Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

**Protective Clothing:** Wear long sleeved shirt, long pants, shoes, socks, and chemical-resistant, chemical resistant gloves and a face shield or goggles. When mixing, loading or cleaning up spills or equipment or otherwise exposed to concentrate, wear a chemical-resistant apron.

**General:** Wash clothing and other absorbent materials that have been exposed to this product. 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

**Appearance:** Dark amber liquid

**Odor:** Phenolic

**pH:** 4.2 – 4.6

**Density:** 9.48 lbs/gal

**Solubility:** Emulsifies

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Excessive heat. Do not store near heat or flame.

**CHEMICAL STABILITY:** Stable under normal use and storage conditions.

**HAZARDOUS DECOMPOSITION PRODUCTS:** May release toxic gasses when thermally decomposed.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Strong oxidizing agents, bases and acids.

**POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE ORAL TOXICITY

Oral LD<sub>50</sub> (rat): 1,380 mg/kg

### ACUTE DERMAL TOXICITY

Dermal LD<sub>50</sub> (rat): > 2,020 mg/kg

### ACUTE INHALATION TOXICITY

Inhalation LC<sub>50</sub> (rat): > 5.12 mg/L (4-hour)

### EYE IRRITANT

Rabbit – Minimally irritating

### SKIN IRRITATION

Rabbit – Slightly irritating

### SENSITIZATION

Guinea Pig – Not a contact sensitizer

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None known.

### CARCINOGENICITY:

**ACGIH:** Not listed

**IARC:** Class 2B (chlorophenoxy herbicides)

**NTP:** Not listed

**OSHA:** Not listed

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

**ADDITIONAL DATA:** Not known to cause reproductive or birth defects at normal exposure levels.

## 12. ECOLOGICAL INFORMATION

The following information is for the active ingredient, 2,4-D 2EHE:

### AQUATIC TOXICITY

Bluegill (96-hr LC<sub>50</sub>): > 5 mg/L

Rainbow Trout (96-hr LC<sub>50</sub>): 7.2 mg/L

Daphnia (48-hr EC<sub>50</sub>): > 5 mg/L

### AVIAN TOXICITY

Bobwhite Quail (Oral LD<sub>50</sub>): > 5,620 mg/kg

Mallard Duck (8-day Dietary LC<sub>50</sub>): > 5,620 ppm

## 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 and may contaminate groundwater. If these wastes cannot be disposed of by 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.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Refer to the product label for specific container disposal instructions.

## 14. TRANSPORT INFORMATION

### Containers ≤ 30 Gallons:

DOT PROPER SHIPPING NAME: Not Regulated by DOT

### Containers > 30 Gallons:

DOT PROPER SHIPPING NAME: UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (2,4-D 2EHE), 9, PG III

REPORTABLE QUANTITY: 100 lbs. (18 gallons of product)

DOT EMERGENCY RESPONSE GUIDE: 171

MARINE POLLUTANT: No

## 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, Delayed

### SARA Title III – Section 312 Threshold Planning Quantity

N/A

### SARA Title III – Section 313 Reportable Ingredients

2,4-D 2EHE (CAS No. 1928-43-4): 87.3%

Naphthalene (CAS No. 91-20-3): < 0.14%

### CERCLA Reportable Quantity (RQ) –

2,4-Dichlorophenoxyacetic Acetic Acid (CAS No. 94-75-7): 100 lbs. (18 gallons of product)

Naphthalene (CAS No. 91-20-3): 100 lbs.

### CALIFORNIA PROP 65 STATUS –

This product does not contain a chemical (Naphthalene) 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.