



## SECTION 1: PRODUCT AND MANUFACTURER INFORMATION

**Name: 22-3-11 50 XCU & Armament™**

Recommended Use: Turfgrass Fertilizer

Manufacturer: Morral Companies, LLC; P.O. Box 26, Morral OH 43337. Phone: 740-465-3251

For Transportation Emergencies call Chemtrec at 800-424-9300

For Other Emergencies call 911 and/or Appropriate Regulatory Agencies

## SECTION 2: HAZARD IDENTIFICATION

**GHS Hazard Classification:** None

This material does not present any unusual hazards under ordinary conditions. Use general precautions when handling, transporting, and storing this material.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS #	% BY WEIGHT
Urea	57-13-6	5-65
Ammonium Phosphate, monobasic	7722-76-1	4-70
Ammonium Phosphate, dibasic	7783-28-0	4-65
Potassium Chloride	7447-40-7	5-90
Sulfur	7704-34-9	0.1-1.5
Zinc EDTA	15954-98-0	<0.5
Sodium Borate	1303-96-4	<0.5
Proprietary Highly Branched Organic Acids	n/a	0.5

*The material is a blend of 2 or more of the above ingredients (usually Urea, Potassium Chloride, and a single Phosphate source), as designated in the derivation statement. The percentage is dependent on labeled grade, typically within the ranges specified. An inert filler and/or binder may also be included. Sulfur is present as a coating on some or all of the Urea content. The remaining ingredients are present in a coating on all granules.*

## SECTION 4: FIRST AID MEASURES

**SKIN CONTACT:** The material may be especially irritating to cuts, abrasions, and open wounds. If exposure occurs, rinse the affected area thoroughly with water. Treat other irritated areas by washing with soap and water.

**EYE CONTACT:** Minor irritation is likely if exposure occurs. Rinse eyes thoroughly with water for 15 minutes. Remove contacts if necessary. Seek medical attention if irritation persists.

**RESPIRATION:** Remove to fresh air and seek medical attention. Inhalation of any liquid or mist may result in breathing difficulty.

**INGESTION:** Swallowing large amounts may result in vomiting, diarrhea, cramps, and other gastrointestinal disturbances. Dilute stomach contents with water. Seek medical attention.

## SECTION 5: FIRE FIGHTING MEASURES

Flash point: does not apply. The Sulfur coating, however, has a low ignition point.

Extinguishing Materials: use as appropriate to fight surrounding fires.

Special Hazards and Precautions: Ammonia, Oxides of Nitrogen, and Chlorine gases may be evolved at elevated temperatures. The Sulfur coating will burn to Sulfur Dioxide. Molten sulfur may evolve hydrogen sulfide (H<sub>2</sub>S), a flammable gas.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

Keep from entering waterways. Sweep up material and place in suitable container for use as a fertilizer or for disposal. For major releases, response by trained personnel using preplanned procedures is recommended. Refer to Exposure Controls / Personal protection to determine proper PPE. Consult applicable regulatory agencies for spill reporting and disposal.

## SAFETY DATA SHEET

### SECTION 7: HANDLING AND STORAGE

Standard conditions are generally acceptable. Keep from humidity to avoid product caking/clumping.

### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Skin exposure should be kept minimal by wearing gloves, long pants, and long sleeved shirts. If handling conditions cause powder to disperse, wear goggles and a dust mask for eye and respiratory protection.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: white, brown, black, and light green granules. May contain some dust or fine particles.

Odor: none

Solubility in water: The plant nutrient components are highly soluble, with the exception of iron oxide. The iron content is soluble only under acidic conditions.

### SECTION 10: STABILITY AND REACTIVITY

This material is stable under normal use and storage conditions. This product is not a reactivity or polymerization hazard. Dust-Air mixtures may ignite and explode.

### SECTION 11: TOXICOLOGICAL INFORMATION

This material is not known to be a toxicity hazard to animals or humans.

### SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity for this product is low. It contains plant nutrients. It incorporates into biological processes.

### SECTION 13: DISPOSAL CONSIDERATIONS

This product is not defined as a hazardous waste by the U.S.E.P.A. Dispose of this product as recommended by federal, state, and local regulations.

### SECTION 14: TRANSPORT INFORMATION

This material is not regulated as a hazardous material by the U.S.D.O.T. Use normal transportation safety precautions.

### SECTION 15: REGULATORY INFORMATION

SARA Title III Hazard Class: not considered a hazard

CERCLA Reportable Quantity: not applicable.

TSCA: not regulated

RCRA Hazardous Waste Classification: not regulated

### SECTION 16: DISCLAIMER

This information is accurate to the best of our knowledge, and is furnished without warranty of any kind. Users should determine the suitability of this material for its intended purpose. The user assumes all risks associated with the use of this product..

# SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)

## 1. IDENTIFICATION

**PRODUCT NAME:** Alligare Triclopyr 4

**DESCRIPTION:** A liquid herbicide.

**EPA Reg. No.:** 81927-11

**COMPANY IDENTIFICATION:**

Alligare, LLC

1565 5th Avenue

Opelika, AL 36801

## 2. HAZARD IDENTIFICATION

### DANGER

May be fatal if swallowed and enters airways (H304)

Harmful if swallowed (H302)

Causes mild skin irritation (H316)

May cause an allergic skin reaction (H317)

Very toxic to aquatic life (H400)

Combustible liquid (H227)



### HAZARD CLASSIFICATION

Health Hazard	Category	Physical Hazards	Category
Aspiration Hazard	1	Flammable Liquids	4
Sensitization, Skin	1		
Skin Corrosion/Irritation	2B	Environmental Hazards	Category
Acute Toxicity, Oral	4	Hazardous to the aquatic environment, short-term	1

### PRECAUTIONARY STATEMENTS

Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. (P264+P270)

Avoid breathing mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves. (P261+P272+P280)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves / protective clothing / eye protection / face protection. (P210+ P273)

Avoid release to the environment not in accordance with the product label. (P273) **IF SWALLOWED:** Immediately call a Poison Control Center or doctor. Rinse mouth. Do NOT induce vomiting. (P301+ P310+ P330+P331)

**IF ON SKIN:** Wash with plenty of water. **If skin irritation or rash occurs:** Get medical advice or attention. Specific treatment (See Section 4 for additional medical information). Take off immediately all contaminated clothing. (P302+P352+ P333+313+P321+P362+P364)

Collect spillage. (P391)

Store locked up. (P405)

Dispose of contents / containers in accordance with local, State and Federal regulations. Refer to the product label for specific disposal instructions. (P501)

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
Triclopyr BEE	(3,5,6-trichloro-2-pyridinyl)oxyacetic acid, butoxyethyl ester	64700-56-7	61.6%
Aromatic Hydrocarbons	Solvent Naphtha (Petroleum), Heavy Aromatic	64742-94-5	> 25.0%

#### 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact CHEMTREC at 1-800-424-9300 for emergency medical treatment information.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. 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. Do not give liquid to the person.

**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. If eye irritation persists: Get medical advice/attention.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. If skin irritation or rash occurs: Get medical advice / attention.

**NOTE TO PHYSICIAN:** May pose aspiration hazard. Contains petroleum distillates.

#### 5. FIREFIGHTING MEASURES

**Fire and Explosion Hazards:** Thermal decomposition may release irritating gases and fumes (see Section 10).

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

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

**Fire Fighting Instructions:** Evacuate area and fight fire upwind from a safe distance to avoid possible hazardous fumes and decomposition products. Dike runoff and do not allow runoff to enter sewers, storm drains or waterways. Foam and dry chemical extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

**Hazardous Combustion Products:** Hydrogen chloride, oxides of nitrogen, phosgene.

**NFPA Ratings:** Health – 2 / Flammability – 2 / 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.

**SMALL SPILLS:** Absorb spill with sand, vermiculite or other inert absorbent. Place contaminated material into an appropriate container for disposal.

**LARGE SPILLS:** Dike large spills using absorbent or impervious materials such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, scrape up and place in an appropriate container for disposal. After removal, flush contaminated area thoroughly with water, observing all environmental regulations. Recover wash liquid with additional absorbent and place in container for disposal.

#### 7. HANDLING AND STORAGE

Avoid contact with skin, eyes and clothing. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Do not use or store near heat or open flame. Do not cut or weld container. Store above 28°F 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 secured storage area.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

**Protective Clothing:** Long-sleeved shirt, long pants and shoes plus socks, and chemical resistant gloves (> 14 mils) such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber.

**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

<b>Appearance:</b>	Amber liquid	<b>pH:</b>	4.0 – 5.0
<b>Odor:</b>	Aromatic Solvent	<b>Kinematic viscosity:</b>	not available
<b>Melting/freezing point:</b>	not available	<b>Solubility:</b>	Emulsifies
<b>Boiling point/Boiling range:</b>	not available	<b>Partition coefficient:</b>	not available
<b>Flammability:</b>	not available	<b>Vapor pressure:</b>	not available
<b>Flammability limits (upper/lower):</b>	not available	<b>Density:</b>	1.075 g/mL (8.97 lb/gal)
<b>Flash point:</b>	61.8°C (143.2°F)	<b>Relative vapor density:</b>	not available
<b>Auto-ignition temperature:</b>	not available	<b>Particle characteristics:</b>	not available
<b>Decomposition temperature:</b>	not available		

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Temperatures above 40°C (105°F) and below -2°C (28°F).

**CHEMICAL STABILITY:** Stable under all normal use and storage conditions. May thermally decompose.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may generate hydrogen chloride, oxides of nitrogen and phosgene.

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

**POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**ORAL TOXICITY (rat LD<sub>50</sub>):** > 1,000 mg/kg

**DERMAL TOXICITY (rabbit LD<sub>50</sub>):** > 2,000 mg/kg

**INHALATION TOXICITY (rat LC<sub>50</sub>):** > 5.2 mg/L

**EYE IRRITATION:** Mildly irritating

**SKIN IRRITATION:** Moderately irritating

**SKIN SENSITIZATION:** Potential sensitizer after repeated exposures to concentrate.

**CARCINOGENICITY:**

**EPA:** Not listed.

**ACGIH:** Not Listed

**NTP:** Not Listed

**IARC:** Not Listed

**OSHA:** Not Listed

**MUTAGENIC TOXICITY:** Little evidence of mutagenic effects during *in vivo* and *in vitro* assays.

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

## 12. ECOLOGICAL INFORMATION

This pesticide is toxic to fish. 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 or rinsate.

This herbicide is injurious to plants at extremely low concentrations. Nontarget plants may be adversely affected from drift and run-off.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

### AQUATIC TOXICITY

Bluegill sunfish 96-hr LC<sub>50</sub>: 0.44 mg/L  
Daphnia magna 48-hr EC<sub>50</sub>: 0.35 mg/L  
Green Algae E<sub>b</sub>C<sub>50</sub>: 10.6 mg/L

### TERRESTRIAL TOXICITY

Bobwhite quail oral LD<sub>50</sub>: 1350 mg/kg  
Honeybee contact and oral LD<sub>50</sub>: >230 µg/bee

## 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product (that cannot be used according to label instructions) must be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Refer to the product label for specific container handling instructions.

## 14. TRANSPORT INFORMATION

<b>UN Number:</b>	UN3082
<b>Proper Shipping Name:</b>	Environmentally hazardous substance, liquid, N.O.S. (contains Triclopyr, Aromatic Hydrocarbons)
<b>Transport Hazard Class:</b>	9
<b>Packing Group:</b>	III
<b>Hazard Zone:</b>	A
<b>Marine Pollutant:</b>	Yes <sup>1</sup>
<b>Hazardous Substance RQ:</b>	None
<b>Labels / Placards:</b>	US-DOT: Combustible Liquid <sup>2</sup> IMDG, IATA: Class 9 Environmentally Hazardous Substance <sup>3</sup>
<b>Emergency Guide:</b>	171 (NAERG – North American Emergency Response Guide)
<b><sup>1</sup> Marine Pollutant Note:</b>	Ground-only shipments are excluded from Marine Pollutant labeling requirements as per 49 CFR 172.101 Appendix B (4). For any shipments involving all or part of the transport by vessel, the shipment must be classified as a Marine Pollutant unless a limited quantity exemption applies (see note 3 below).
<b><sup>2</sup> US-DOT Note:</b>	Containers < 119 Gallons shipped by land or vessel not regulated for domestic transport. Containers ≥ 119 gallons or shipments by air must be shipped as NA1993, Combustible Liquid, N.O.S. (contains Triclopyr, Aromatic Hydrocarbons), PG III. Emergency response guide 128.
<b><sup>3</sup> IMDG / IATA Note:</b>	Not regulated when shipped in single or inner packaging ≤ 1.3 gallons (5 liters)

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

## 15. REGULATORY INFORMATION

### FIFRA –

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

#### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. 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 or rinsate.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Physical or Chemical Hazards

**Combustible:** Do not use or store near heat or open flame. Do not cut or weld container.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

### SARA Title III – Section 302 Extremely Hazardous Substances

Not listed

### SARA Title III – Section 311/312 Hazard Categories

Immediate, Delayed, Fire

### 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 –

N/A

### CALIFORNIA PROP 65 STATUS –

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

### CANADA –

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

## 16. OTHER INFORMATION

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS 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. THIS INFORMATION IN THIS SDS 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 SDS. 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.

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