

MATERIAL SAFETY DATA SHEET

Emergency Phone: Chemtrec 800-424-9300

Effective Date: December 8, 2010

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ArmorTech KADE 65 WDG

DESCRIPTION: A granular herbicide.

EPA Reg. No. 81927-36-86064

COMPANY IDENTIFICATION:

United Turf Alliance, LLC

8014 Cumming Highway, Suite 403-282

Canton, GA 30115

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>Chemical Name</u>	<u>Chemical Formula</u>	<u>CAS Number</u>	<u>Composition</u>
Prodiamine	2,4-dinitro- <i>N</i> ³ , <i>N</i> ³ -dipropyl-6-(trifluoromethyl)-1,3-benzenediamine	C ₁₃ H ₁₇ F ₃ N ₄ O ₄	29091-21-2	65.0%

3. HAZARD IDENTIFICATION

HAZARDS TO HUMANS AND DOMESTIC ANIMALS: Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

ENVIRONMENTAL HAZARDS: This product has low solubility in water. At the limit of solubility, this product is not toxic to fish. However, at concentrations substantially above the level of water solubility, it may be 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. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not contaminate water when disposing of equipment wash water.

HAZARDOUS DECOMPOSITION PRODUCTS: This product forms toxic fumes 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. You may also contact 1-800-424-9300 for emergency medical treatment information.

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.

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 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 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 further treatment advice.

5. FIRE-FIGHTING MEASURES

Flash point (PMA-4): N/A

Flammable Limits (LFL-UFL): N/A

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

Means of Extinction: Foam, dry chemical or CO₂

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 will produce toxic gasses.

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

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. Recover materials for reuse or disposal being sure to minimize dust generation. Scrub area with hard water detergent (e.g., Tide, Joy, Spic and Span, etc.) and pick up wash liquid with additional absorbent and place into compatible disposal containers.

7. HANDLING AND STORAGE

Keep out of reach of children. Avoid contact with eyes, skin or clothing and avoid breathing dust. 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.

Store in original container away from fertilizer, feed, or food stuffs.

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 gloves made of any waterproof material when handling or applying this product.

General: 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: Yellow Granules

Odor: None

pH: 8.0 – 8.5

Solubility: 0.013 ppm @ 77°F (25°C)

Bulk Density: 0.56 g/cm³ (34.96 lbs/ft³)

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Oxidizing agents.

CHEMICAL STABILITY: Stable under normal use and storage conditions.

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

INCOMPATIBILITY WITH OTHER MATERIALS: None Known.

POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY

Oral LD₅₀ (rat): > 5,000 mg/kg

ACUTE DERMAL TOXICITY

Dermal LD₅₀ (rat): > 2,000 mg/kg

ACUTE INHALATION TOXICITY

Inhalation LC₅₀ (rat): 1.81 mg/L (4-hour)

EYE IRRITANT

Rabbit – Mildly irritating

SKIN IRRITATION

Rabbit – Practically non-irritating

SENSITIZATION

Guinea Pig – Is a contact sensitizer

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.

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, Prodiamine:

ACUTE TOXICITY

Rainbow Trout (96-hr LC₅₀): 0.83 mg/L

Bluegill Sunfish (96-hr LC₅₀): 0.55 mg/L

Daphnia magna (48-hr LC₅₀): 0.66 mg/L

Bobwhite (8-day dietary LC₅₀): > 10,000 mg/L

Mallard (8-day dietary LC₅₀): > 10,000 mg/L

Bees (LC₅₀/EC₅₀): > 100 µg/bee

13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food or feed by disposal.

PESTICIDE DISPOSAL: Open dumping is prohibited. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling, if available, or dispose of empty bag in a 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

DOT EMERGENCY RESPONSE GUIDE: N/A

INTERNATIONAL TRANSPORTATION BY VESSEL

Proper Shipping Name: UN 3077, Environmentally Hazardous Substance, Solid, N.O.S. (contains Prodiamine), 9, III, 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, Delayed

SARA Title III – Section 312 Threshold Planning Quantity

N/A

SARA Title III – Section 313 Reportable Ingredients

N/A

CERCLA –

N/A

CALIFORNIA PROP 65 STATUS –

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

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:

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