

# SAFETY DATA SHEET

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



United Turf Alliance

## 1. 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. HAZARD IDENTIFICATION



**WARNING**

Harmful if inhaled  
May cause an allergic skin reaction  
May be harmful in contact with skin



Very toxic to aquatic life

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Common Name</u>	<u>Chemical Name</u>	<u>CAS #</u>	<u>Composition</u>
Prodiamine	2,4-dinitro- <i>N</i> <sup>6</sup> , <i>N</i> <sup>6</sup> -dipropyl-6-(trifluoromethyl)-1,3-benzenediamine	29091-21-2	65.0%

## 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 1-800-424-9300 for emergency medical treatment information.

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a doctor or poison control center if you feel unwell.

**IF ON SKIN OR CLOTHING:** Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

## 5. FIREFIGHTING 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 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 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 SDS. 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

**Handling:** 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.

**Storage:** 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/cm<sup>3</sup> (34.96 lbs/ft<sup>3</sup>)

## 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.

**HAZARDOUS REACTIONS:** None known.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**ORAL TOXICITY (rat LD<sub>50</sub>):** > 5,000 mg/kg

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

**INHALATION TOXICITY (rat LC<sub>50</sub>):** > 1.81 mg/L (4-hour)

**EYE IRRITATION:** Rabbit – Mildly irritating

**SKIN IRRITATION:** Rabbit – Practically non-irritating

**SKIN SENSITIZATION:** Guinea Pig – Is a contact sensitizer

**CARCINOGENICITY:**

**EPA:** Not Listed

**ACGIH:** Not Listed

**IARC:** Not Listed

**NTP:** Not Listed

**OSHA:** Not Listed

**MUTAGENIC TOXICITY:** No evidence of mutagenic effects during *in vivo* or *in vitro* studies.

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

## 12. ECOLOGICAL INFORMATION

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.

**The following ecotoxicological information is for the active ingredient, Prodiamine:**

### AQUATIC TOXICITY

Bluegill (96-hr LC<sub>50</sub>): 0.55 mg/L

Rainbow Trout (96-hr LC<sub>50</sub>): 0.83 mg/L

Daphnia magna (48-hr LC<sub>50</sub>): 0.66 mg/L

### AVIAN TOXICITY

Bobwhite quail (Oral LD<sub>50</sub>): > 10,000 mg/kg

Mallard duck (Oral LD<sub>50</sub>): > 10,000 mg/kg

### BEE TOXICITY

LC<sub>50</sub>/EC<sub>50</sub>: > 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. Refer to the product label for specific container handling instructions.

## 14. TRANSPORT INFORMATION

### US DOT:

#### Containers < 119 gal (< 882 lbs.):

Not regulated by DOT.

#### Containers ≥ 119 gal (≥ 882 lbs.):

DOT Shipping Name:

UN3077, Environmentally Hazardous Substance, Solid, N.O.S.  
(Prodiamine), 9 , PG III

DOT Emergency Response Guide:

171

Marine Pollutant:

Yes

## 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 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.

See inside label booklet for additional Precautionary Statements and Directions for Use including Storage and Disposal instructions.

#### 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.

## 15. REGULATORY INFORMATION (CONT.)

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

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

N/A

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

None

### **CERCLA –**

Not listed

### **CALIFORNIA PROP 65 STATUS –**

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

### **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 INFORMATION IN THIS SDS IS BASED ON DATA AVAILABLE AS OF THE REVISION DATE GIVEN HEREIN, AND BELIEVED TO BE CORRECT. CONTACT UNITED TURF ALLIANCE, 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, UNITED TURF ALLIANCE, 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 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.

SDS Version: 1.0

Effective Date: 01/12/2016