

**MATERIAL SAFETY DATA SHEET**

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In Case of Emergency, Call  
PROSAR: 888-875-1724

**I. PRODUCT IDENTIFICATION**

Product Name: Knighthawk  
Active ingredient: Prodiamine (65%)  
Active Ingredient IUPAC Name: 5-propylamino- $\alpha$ - $\alpha$ - $\alpha$ -trifluoro-4, 6-dinitro-o-toluidine

**II. HAZARDOUS INGREDIENTS**

The substances listed below are those identified as hazardous chemicals under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

<u>Component</u>	<u>CAS No.</u>
Prodiamine	29091-21-2

Exposure Limits:

ACGIH-TLV: Not Established

OSHA-PEL: Not Established

**III. TRANSPORTATION & REGULATORY INFORMATION**

This product is regulated for transportation purposes as follows:

<i>MODE</i>	<i>BULK (&gt; 400 Kg {882 lb})</i>	<i>NON-BULK (&lt; 400 Kg {882 lb})</i>
IATA (Air):	No	No
IMO (Water):	Yes	Yes
DOT (Land):	Yes	No

BOL Description: Environmentally Hazardous Substance,  
Solid, N.O.S. (Prodiamine 65%),  
9, UN3077, PG III, Marine Pollutant

Freight class: Weed killing compound  
NMFC 50320 Class 60

**SARA TITLE III INFORMATION**

312 Hazards Classification: Acute and Chronic Health (See Section V for Health Hazard Information)  
313 Inventory Ingredients: None  
California Proposition 65: Not Applicable  
CERCLA reportable quantity: None  
RCRA classification: Not Applicable  
TSCA status: Exempt

**IV. PHYSICAL & CHEMICAL PROPERTIES**

Boiling Point (760 mm Hg): \*N/A (decomposes at 240°C)  
Melting Point: \*122.5-124 °C  
Freezing Point: N/A (solid)  
Vapor Pressure: \*0.0033 mPa @ 25°C  
Solubility in H<sub>2</sub>O: \*0.013 ppm @ 25°C  
% Volatiles by Volume: N/A  
Appearance: \*Yellow solid

(\*denotes data developed from technical active ingredient)

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**V. FIRE AND EXPLOSION DATA**

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Flash Point: N/A  
Autoignition Temperature: N/A  
Flammable Limits in Air, % by Volume: Lower: N/A  
Upper: N/A  
Extinguishing Media: N/A  
Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.  
Unusual Fire and Explosion Hazards: Flammable or explosive with high energy impact.

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**VI. HEALTH HAZARD INFORMATION**

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Oral LD50 (rat) : >5,050 mg/kg (U.S. EPA Category IV)\*  
Dermal LD50 (rabbit) : >5,050 mg/kg (U.S. EPA Category IV)\*  
Inhalation LC50 (4-hour rat) : >0.231 mg/m<sup>3</sup> of air (U.S. EPA Category III)\*  
Primary Eye Irritation (rabbit): Mildly irritating (U.S. EPA Category III)\*  
Primary Dermal Irritation (rabbit): Non-irritating (U.S. EPA Category IV)\*

(\*denotes data developed from technical active ingredient)

**Emergency and First Aid Procedures**

If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest Poison Control Center. Tell the contact person the complete product name and the type and amount of exposure by the victim.

Eyes: IMMEDIATELY flush eyes with plenty of water, holding eyelids apart to ensure flushing of the entire eye surface and lids. Do not apply any medication except on the advice of a physician.

Skin: Wash with plenty of soap and water. Remove contaminated clothing and footwear. Wash clothing and footwear and decontaminated before reuse. Do not apply any medication except on the advice of a physician.

Inhalation: Remove person from contaminated area to fresh air or employ proper respiratory protection until adequate ventilation other control measure is restored. Apply artificial respiration if necessary.

Ingestion: If victim is fully conscious, immediately give a large quantity of water to drink, then induce vomiting by tickling the back of throat with finger. Never give anything by mouth to an unconscious person.

NOTES TO PHYSICIAN: There is no specific antidote if this product is ingested. If a large amount has been ingested, and emesis is inadequate, lavage stomach. This product has a high affinity to activated charcoal. Fifty (50) grams activated charcoal in 400 mL water can be given to absorb the remaining material in the stomach. Treat the patient symptomatically.

**Possible Effects of Chronic Overexposure**

None known.

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## VII. REACTIVITY DATA

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Stability:	Under normal use conditions, this product is stable.
Incompatibility:	Not known.
Hazardous Decomposition Products:	None known.
Hazardous Polymerization:	Material not known to polymerize.

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## VIII. SPILL OR LEAK PROCEDURES

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### Steps To Be Taken If Material Is Released Or Spilled:

Wear chemical safety glasses with side shields or chemical goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering and a NIOSH-approved cartridge respirator with organic vapor cartridges and pesticide pre-cartridges, or a self contained breathing apparatus. Cover spill area with absorbent material such as pet liter. Sweep up and place in an approved container for pesticide disposal. Wash the spill area with water containing a strong detergent, absorb wash water with pet litter or other absorbent material, sweep up and place in a disposal container. Seal the container before shipping for disposal.

### Waste Disposal Method:

Waste portions of this product and contaminated absorbent materials may be disposed of by incineration provided the following conditions are observed:  
Incinerate in a suitable oven fed by a mixture of air and methane, at 1100-1200° C temperature.

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## IX. INDUSTRIAL HYGIENE CONTROL MEASURES

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### Ventilation Requirements

Good industrial hygiene practice dictates that indoor work areas be isolated and provided with adequate local exhaust ventilation. Work upwind in out-of-doors batch operations.

### SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

EYE: Safety glasses, goggles or face shields.

GLOVES: Chemical-resistant gloves.

### OTHER CLOTHING AND EQUIPMENT

Protective clothing consisting of long sleeve shirt and long pants should be worn when handling this product. Persons exposed routinely to this active material should shower prior to leaving work each day. Safety shower and eye-wash stations should be provided in all areas in which this product is stored and/or handled. Clothing should be changed at least daily and washed thoroughly before re-using.