


NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY	
0	Least			Not regulated by the U.S. Department of Transportation as a hazardous material; see Section 14 for additional information.	
1	Slight	1	Health		
2	Moderate	1	Flammability		
3	High	0	Reactivity		
4	Severe				

SECTION 1: IDENTIFICATION	
Product Name:	Daze® 4SC
EPA Registration #:	1381-212
Product ID/Unity #:	10007452
Common Name (Active Ingredient):	Thidiazuron: (N-phenyl-N'-1,2,3-thiadiazole-5-ylurea)
Recommended Uses:	Cotton Defoliant. See product label for complete list of recommended uses and use site.
Restrictions for Use:	See product label for information regarding restrictions on the use of this product
Manufactured For: WINFIELD SOLUTIONS, LLC P. O. Box 64589 St. Paul, MN 55164-0589	MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs) Non-Emergency Business Inquiries: 1-855-494-6343 Mon – Fri 8am – 5pm (Central Standard Time)
FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)	

SECTION 2: HAZARDS IDENTIFICATION		
OSHA HCS 2012 CLASSIFICATION: This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200). Acute Oral Toxicity Category 4; Acute Inhalation Toxicity Category 4; Skin Corrosion/Irritation Category 2; Eye Damage/Irritation Category 2B		
EMERGENCY OVERVIEW		
SIGNAL WORD: WARNING		
HAZARD STATEMENTS: Harmful if swallowed or inhaled. Causes skin and eye irritation.		
Appearance: Opaque light brown liquid	Physical State: Liquid	Odor: No appreciable odor
PRECAUTIONARY STATEMENTS:		
Prevention:	Wash hands and exposed skin thoroughly after handling. Do not eat drink or smoke when using this product. Avoid breathing mist, vapors or spray. Use only outdoors or in a well-ventilated area. Wear protective gloves.	
Response:	If Swallowed: Call a poison control center (1-877-424-7452) or doctor if you feel unwell. Rinse mouth. If Inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison control center (1-877-424-7452) or doctor if you feel unwell. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.	
Storage:	See Section 7 for Storage Information.	
Disposal:	Dispose of contents/container in accordance with Federal, state and local regulations.	

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	% (wt)	CAS Reg. #
Thidiazuron	42.4%	51707-55-2
Propylene Glycol	4.75-5.25	57-55-6
*Ingredients not specifically listed are non-hazardous and/or are considered to be confidential business information under 29 CFR 1910.1200(i).		
See Section 8 for exposure limits.		

SECTION 4: FIRST AID MEASURES

Ingestion:	Call a poison control center or doctor immediately for treatment advice. Rinse mouth out with water and then 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.
Eyes:	Hold eye open and rise 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.
Skin:	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 irritation occurs. Wash contaminated clothing separately before reuse.
Inhalation:	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.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide, or dry foam. Water spray (fog). Dry chemical.
Unsuitable Extinguishing Media: Do not use straight streams.
Special Fire Fighting Procedures: Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear. If water is used to fight fire or cool containers, dike to prevent runoff contamination of municipal sewers or waterways. Dispose of fire control water later. Avoid breathing vapors; keep upwind.
Unusual Fire and Explosion Hazards: Closed containers may explode from vapor expansion in high heat.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.
Environmental Precautions: Keep spilled product from entering sewers or waterways.
Methods for Containment: Dike spill with an inert absorbent material such as sand, vermiculite or other appropriate material. Do not use combustible materials such as sawdust. Collect and contain contaminated absorbent and dike material for disposal.
Methods for Clean-up: Vacuum, scoop, or sweep up material and place in a container for disposal. Do not place spilled material back in original container.
Other Information: Spills of this product may require reporting under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). See Section 15 for additional information.

SECTION 7: HANDLING AND STORAGE

Handling: RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the pesticide product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with EPA Worker Protection Standard 40 CFR part 170. Do not get in eyes or on skin or clothing. Do not breathe vapors or spray mist. Ensure adequate ventilation. Immediately clean up spills that occur during handling. Keep containers closed when not in use. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Remove clothing/Personal Protective Equipment (PPE) 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 change into clean clothing.
Storage: Store in cool, dry areas away from children, feed and food products and sources of heat. Store in original container with lid tightly closed. Store in a secure location. See pesticide product label for additional storage information.
Minimum Storage Temperature: Do not store below 32°F or above 100°F. If freezing occurs, allow material to thaw and re-mix thoroughly before use.
Other Precautions: Consult Federal, state and local laws and regulations pertaining to storage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines Component:	OSHA PEL	ACGIH TLV	NIOSH REL
None Established			
Engineering Controls:	Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.		
Skin Protection: Wear chemical resistant gloves, long sleeved shirt, long pants, shoes and socks. An emergency shower or water supply should be readily accessible to the work area.			
Eye Protection: Wear chemical goggles or safety glasses and full-face shield. Contact lenses are not eye protective devices. An emergency eyewash or water supply should be readily accessible to the work area.			
Respiratory Protection: Not normally required. If vapors or mists exceed acceptable levels or if irritation occurs, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for use against pesticides and organic vapors.			
NOTE TO END USERS: PERSONAL PROTECTIVE EQUIPMENT (PPE) AND CLOTHING LISTED IN THIS SECTION IS FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD REFER TO THE PESTICIDE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT (PPE) AND CLOTHING.			
Work/Hygienic Practices: Never eat, drink, nor use tobacco in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.			

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Specific Gravity (H₂O=1):	1.16 to 1.19
Vapor Pressure (mm Hg):	Not determined	Density (lbs/gallon):	9.68 to 9.93 lbs/gallon
Vapor Density (Air=1):	Not determined	Melting Point/Freezing Point:	Not determined
Solubility in Water:	Not determined	Boiling Point/Range:	Not determined
Viscosity:	Not determined	pH (1% dispersion):	5.5 to 8
Appearance and odor:	Opaque light brown liquid with no appreciable odor	Flash Point:	>93°C (200°F)

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions of use.
Chemical Stability: Product is stable at ambient temperature and pressure, under normal storage and handling conditions.
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
Conditions to Avoid: Avoid excessive heat. Do not store near heat or flame.
Incompatible Materials: Strong oxidizing agents.
Hazardous Decomposition Products: May produce irritating and toxic gases due to thermal decomposition.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY (Summary of data from similar but not identical products)	
Acute Oral Effects:	Harmful if swallowed. The LD ₅₀ in rats is > 500 mg/kg - <5,000 mg/kg.
Acute Dermal:	The LD ₅₀ in rats is > 5,000 mg/kg.
Acute Inhalation Effects:	Harmful if inhaled. The 4 hour LC ₅₀ in rats is > 4.3 mg/L.
Skin Irritation:	Mildly irritating.
Eye Irritation:	Slightly irritation.
Skin Sensitization:	Did not cause sensitization in laboratory animals.
Percent of product with unknown acute toxicity: 0%	
SUBCHRONIC / CHRONIC TOXICITY	
Subchronic (Target Organ) Effects:	Repeat overexposure to thidiazuron may cause reduced body weight gains. In rare cases, repeated excessive exposure to propylene glycol may cause central nervous system effects.
Chronic Health Effects:	Prolonged overexposure to thidiazuron may cause reduced body weight gains and transient hemolytic anemia. In rare cases, repeated excessive exposure to propylene glycol may cause central nervous system effects.
<i>Continued on next page</i>	

Carcinogenicity: This product does not contain ingredients that are considered to be probable or suspected human carcinogens.

ACGIH	IARC	NTP	OSHA
Not listed	Not listed	Not listed	Not listed

Mutagenicity: None known.
Reproductive Toxicity: None known.
Developmental Toxicity: None known.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY DATA: Data on Thidiazuron Technical

96-hour LC ₅₀ Bluegill: >32 mg/l	Bobwhite Quail 8-day Dietary LC ₅₀ : >5,000 ppm
96-hour LC ₅₀ Rainbow Trout: > 19 mg/l	Bobwhite Quail Oral LD ₅₀ : >3,160 mg/kg
48-hour EC ₅₀ Daphnia: > 10 mg/l	Mallard Duck 8-Day Dietary LC ₅₀ : >5,000 ppm

Environmental Fate: Thidiazuron is persistent in soil with a typical half-life of one year. Adsorption of thidiazuron in soil is related to soil organic matter. Based on relatively low octanol/water partitioning coefficient, thidiazuron is not expected to bioconcentrate. In water, photolysis is expected to be the major route of degradation.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste: Dispose of in accordance with applicable Federal, state and local laws and regulations.
Container: Triple rinse and recycle the container or dispose of in accordance with Federal, state and local laws and regulations. See pesticide product label for full instructions on disposal.
RCRA Characteristics: It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

SECTION 14: TRANSPORT INFORMATION

DOT: (Ground)	Not regulated
IMDG: (Sea)	Not determined
IATA: (Air)	Not determined
TDG: (Canada)	Not determined

SECTION 15: REGULATORY INFORMATION

TSCA Inventory: This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.
SARA Title III Information:

Section 302 - Extremely hazardous substances: None listed
 Section 311/312 - Hazard Categories: Immediate (Acute)
 Section 313 - The following chemicals are subject to the reporting requirements of Section 313 of Title III, Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372:
 None listed

CERCLA - This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):
 None listed

EPA Registration Information: 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. Following is the hazard information as required on the pesticide label.

CAUTION: Harmful if swallowed, inhaled or absorbed through skin. Avoid breathing spray mist. Avoid contact with skin, eyes, and clothing.

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State Information:

California Proposition 65: Not listed

Other state regulations may apply. Check individual state requirements.

SECTION 16: OTHER

Disclaimer: The information presented herein is based on available data from reliable sources and is correct to the best of WinField Solutions' knowledge. WinField Solutions, LLC makes no warranty, express nor implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

Revision Date: June 24, 2016

Supersedes document dated: September 13, 2007

Sections Revised: All