



Material Safety Data Sheet

MSDS Number: 000000001091

DROPP 50WP DEFOLIANT

MSDS Version 1.

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name DROPP 50WP DEFOLIANT
Chemical Name N-phenyl-N'-(1,2,3-thiadiazol-5'yl urea (active ingredient)
Synonym CP 841 (Dropp 50WP)
MSDS Number 1091
Chemical Family
Chemical Formulation Mixture (active ingredient:C9H8N4OS)
EPA Registration No. 264-622
Canadian Registrat. No.

Aventis CropScience USA LP
2 T.W. Alexander Drive
Research Triangle PK, NC 27709
USA

For Product Use Information: (888)-AVENTIS (283-6847) Monday through Friday
8:00AM-4:30PM
For Medical Emergency contact DART: (800) 334-7577 24 Hours/Day
For Transportation Emergency CHEMTREC: (800) 424-9300 24 Hours/Day

Product Use Description DROPP 50 WP is a defoliant used as a harvest-aid on cotton.

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component Name</u>	<u>CAS No.</u>	<u>Concentration % by Weight</u>	
		<u>Minimum</u>	<u>Maximum</u>
Thidiazuron	51707-55-2	50.0000	
Inert ingredients,including: Hydrous Aluminum Silicate	1332-58-7	50.0000	

SECTION 3. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

Emergency Overview A slight eye irritant.

Physical State solid powder

Odor odorless

Appearance light-yellow to brown

Routes of Exposure Dust inhalation, skin contact.

Immediate Effects

Eye May cause mild irritation to eyes.

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Skin	Harmful if absorbed through skin. Not known to be a skin irritant. Does not cause allergic skin reactions.
Ingestion	Harmful if swallowed. No specific health effects are known for ingestion of a small amount incidental to routine handling and use.
Inhalation	Harmful if inhaled. Excessive dust inhalation in a confined area may cause congestion and irritation to the respiratory system.
Chronic or Delayed Long-Term	No component of this product is listed as a carcinogen by NTP, IARC, or OSHA.
Medical Conditions Aggravated by Exposure	Excessive dust inhalation may aggravate pre-existing respiratory conditions.
Signs and Symptoms	Effects of Acute Overexposure: Can cause apathy (lack of feeling or emotion) following high oral doses.

SECTION 4. FIRST AID MEASURES

Eye	Flush eyes with plenty of water for at least 15 minutes.
Skin	Wash with plenty of soap and water. Seek medical attention.
Ingestion	Call a physician or Poison Control Center. Drink one or two glasses of water and induce vomiting by touching the back of the throat with finger, or by giving 1 ounce of syrup of ipecac, if available. Do not induce vomiting or give anything by mouth to an unconscious person.
Inhalation	Remove victim to fresh air.
Note to Physician	Supportive care and symptomatic treatment. A mild eye or respiratory irritant.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point	Does not flash
Fire and Explosion Hazards	This product powder is combustible and will sustain flame when in contact with fire. Dispersion of fine dust in the air can form an explosive mixture. May decompose at high temperatures and give off poisonous oxides.
Suitable Extinguishing Media	water, foam, dry powder, carbon dioxide (CO2)
Fire Fighting Instructions	In the event of fire, wear self-contained breathing apparatus. FLAMMABILITY CLASSIFICATION/RATING: NFPA/OSHA Class: IIIB NFPA Rating (Fire): 1

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SECTION 6. ACCIDENTAL RELEASE MEASURES

General and Disposal Use proper protective equipment to minimize personal exposure (see Section 8). Take all necessary action to prevent and to remedy the effects of the spill. Ensure that the disposal is in compliance with Federal or local disposal regulations. Notify the appropriate authorities immediately. See Section 15 for any applicable Reportable Quantity (RQ) and other federal regulatory information. Report immediately to authorities if liquid enters watercourse or sewer.

Land Spill or Leaks Wear impervious gloves when removing spillages and cleaning up contaminated areas. With a clean shovel, place as much as possible of spilled material into a clean, dry container and cover. Avoid creation of dusty conditions. Wipe up remaining spillage with damp rags and place rags in the container for disposal. Then wash contaminated area with water and detergent.

Large Spill: Contact Aventis for further assistance if necessary.

SECTION 7. HANDLING AND STORAGE

Handling Procedures Avoid contact with skin, eyes and clothing. Avoid breathing spray mist. Do not contaminate food or feedstuffs.

Storing Procedures Do not store this product under wet conditions.

Work/Hygienic Procedures Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before re-use.

Note: When the product is handled or used in a manufacturing or packaging facility, proper dust exhaustion is strictly required in order to minimize the potential for dust explosion. However, such electrostatic/dust hazard potential is not applicable to the finished end-used product which is fully enclosed in water-soluble packaging.

Min/Max Storage Temperatures Handle carefully when stored at 50°F to avoid breakage of soluble bags.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls Control airborne concentrations below the exposure guidelines. Local exhaust ventilation may be necessary, when used in a confined area.

Eye/Face Protection goggles or safety glasses

Body Protection Rubber protective gloves.

Respiratory Protection Ensure good ventilation. If not adequate, wear a suitable dust respirator.

The following personal protective equipment (PPE) must be worn when using

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product or upon early entry into treated areas during the Restricted Entry Interval (REI):

- Long-sleeved shirts & long pants; or Coveralls (for early entry during REI only)
- Waterproof gloves
- Shoes plus socks

Note: Refer to the product label for applicable details concerning the "User Safety Recommendations" and the use of PPE under the EPA Worker Protection Standards (40 CFR Part 170).

Exposure Limits

Hydrous Aluminum Silicate	1332-58-7	ACGIH	TWA	2 mg/m3	
		NIOSH	REL	5 mg/m3	
			Form of Exposure	Respirable.	
		NIOSH	REL	10 mg/m3	
			Form of Exposure	Total	
		US CA OEL	TWA PEL	2 mg/m3	
			Form of Exposure	Respirable dust.	
		OSHA Z1	PEL	5 mg/m3	
			Form of Exposure	Respirable fraction.	
		OSHA Z1	PEL	15 mg/m3	
	Form of Exposure	Total dust.			
OSHA Z1A	TWA	5 mg/m3			
	Form of Exposure	Respirable fraction.			
OSHA Z1A	TWA	10 mg/m3			
	Form of Exposure	Total dust.			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	light-yellow to brown
Physical State	solid powder
Odor	odorless
Vapor Pressure	Not Volatile
Density	0.2-0.4 g/ml

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Melting/Freezing Point Not available
Solubility (in water) 20 ppm

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability Stable
Hazardous Polymerization (Conditions to avoid) Will not occur

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity The following data was developed with: Dropp 50WP Defoliant
Rat: LD50: > 4,000 mg/kg
Slightly toxic.

Acute Dermal Toxicity The following data was developed with: Dropp 50WP Defoliant
Rat: LD50: > 1,000 mg/kg
Slightly toxic.

Acute Inhalation Toxicity The following data was developed with: Dropp 50WP Defoliant
Rat: LC50: > 5.0 mg/l 4 h
Practically non-toxic

Skin Irritation The following data was developed with: Dropp 50WP Defoliant
Rabbit: Non-irritating.

Eye Irritation The following data was developed with: Dropp 50WP Defoliant
Rabbit: Slightly irritating.

Sensitization The following data was developed with: Dropp 50WP Defoliant
Guinea pig: Non-sensitizing

Sub-Chronic Toxicity Thidiazuron Technical (>=98%), the active ingredient:
Results from 90-day animal studies suggest no target organ effects under the conditions of normal handling and use.

Chronic Toxicity Thidiazuron Technical (>=98%), the active ingredient:
In two-year feeding studies with rats and mice, no toxic effects were observed in animals administered thidiazuron up to the highest test dose (600 ppm and 1000 ppm, respectively). In a similar one-year study with dogs, no toxic effects were observed at the low dose (100 ppm). At the higher doses (300-1000 ppm), toxic hemolytic anemia associated with compensatory hemopoiesis was the main effect noted. However, the anemic conditions were only confined to a few susceptible dogs and, more importantly, the effects were reversible once thidiazuron was withdrawn from their diets. From these animal studies, it is concluded that no toxic effect of thidiazuron is expected under normal conditions of use.

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Assessment Carcinogenicity

ACGIH

Hydrous Aluminum Silicate

1332-58-7

Group A4

NTP

None

IARC

None

OSHA

None

Reproductive & Developmental Toxicity

Thidiazuron Technical (>=98%), the active ingredient:
No adverse effects on fertility or reproduction were observed in a three-generation rat study.

Neurotoxicity

Data not available.

Teratogenicity

No teratogenic effects were observed for thidiazuron in rat or rabbit teratology studies.

Mutagenicity

Thidiazuron is not mutagenic or genotoxic when tested in several mutagenicity studies.

SECTION 12. ECOLOGICAL INFORMATION

Environmental Precautions

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 disposing of equipment washwaters. Do not apply when weather conditions favor drift from treated areas.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance

Any disposal practice must be in compliance with all Federal, State/provincial, and local laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

Pesticide Disposal: Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal

The product is packaged in water soluble bags. After product use, the empty container box can be disposed of in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

RCRA Classification

Not Regulated under this Statute

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SECTION 14. TRANSPORT INFORMATION

PROPER SHIPPING NAME: None
DOT SHIPPING LABEL: None

SECTION 15. REGULATORY INFORMATION

US Federal

EPA Registration No. 264-622
TSCA list
Hydrous Aluminum Silicate 1332-58-7
TSCA 12b export notification
None
SARA Title III - section 302 - notification and information
None
SARA Title III - section 313 - toxic chemical release reporting
None

US States Regulatory

CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

US State right-to-know ingredients

Hydrous Aluminum Silicate 1332-58-7 IL, PA, RI

Canadian Regulations

Canadian Registrat. No.
Canadian Domestic Substance List
Hydrous Aluminum Silicate 1332-58-7

Environmental

CERCLA
None
Clean Water Section 307 Priority Pollutants
None
Safe Drinking Water Act Maximum Contaminant Levels
None

International Regulations

EU Classification
None
European Inventory of Existing Commercial Substances (EINECS)
Thidiazuron 51707-55-2

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SECTION 16. OTHER INFORMATION

	Health	Flammability	Reactivity	Others
HMIS	1	1	0	E/F
NFPA	1	1	0	none

MSDS REVISION INDICATOR: New Format and EPA Number.

Print Date: 04/26/2002

Supersedes MSDS, which is older than: 04/26/2002

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