# **DUAL MAGNUM**

Date: 2/22/2021 Replaces: 8/4/2015



#### **1. PRODUCT IDENTIFICATION**

Product identifier on label	DUAL MAGNUM
Product No.:	A9793D
Use:	Herbicide
Manufacturer:	Syngenta Crop Protection, LLC Post Office Box 18300 Greensboro NC 27419
Manufacturer Phone:	1-800-334-9481

## Emergency Phone: 1-800-888-8372

## 2. HAZARDS IDENTIFICATION

Classifications:	Inhalation: Category 4
	Skin Sensitizer: Category 1B
	Specific Target Organ Toxicity: Repeated Category 2
	Eye Damage/Irritation: Category 2A
	Specific Target Organ Toxicity: Respiratory Irritation Category 3
	Eye Damage/Irritation: Category 2B
	Carcinogenicity: Category 1B
Signal Word (OSHA):	Danger
Hazard Statements:	May cause an allergic skin reaction
	Causes serious eye irritation
	Causes eye irritation
	Harmful if inhaled
	May cause respiratory irritation
	May cause cancer
	May cause damage to organs through prolonged or repeated exposure

Hazard Symbols:



Precautionary Statements:	Obtain special instructions before use.
	Do not handle until all safety precautions have been read and understood.
	Do not breathe mist, vapors, spray.
	Wash hands and face thoroughly after handling.
	Use only outdoors or in a well-ventilated area.
	Contaminated work clothing must not be allowed out of the workplace.

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			Wear protective gloves, protective clothing, eye protection.
			If on skin: Wash with plenty of soap and water.
			If skin irritation or rash occurs: Get medical advice.
			If inhaled: Remove person to fresh air and keep comfortable for breathing.
			If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
			If eye irritation persists: Get medical advice.
			If exposed or concerned: Get medical advice/attention.
			Call a poison center, doctor or Syngenta if you feel unwell.
			See Section 4 First Aid Measures.
			Wash contaminated clothing before reuse.
			Store locked up.
			Dispose of contents and container in accordance with local regulations.
(	Other Hazard State	ements:	None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name	CAS Number	Concentration
Naphthalene	Naphthalene	91-20-3	<1.0%
Petroleum Solvent	Petroleum Solvent	64742-94-5	<10.0%
Other ingredients	Other ingredients	Trade Secret	<5.3%
Acetamide, 2-chloro-N-(2-ethyl-6- methylphenyl)-N-(2-methoxy-1- methylethyl]-,(S)	S-Metolachlor	87392-12-9	83.7%

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

## 4. FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison contol center or doctor, or going for treatment.

- Ingestion: If swallowed: Call Syngenta (800-888-8372), a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling 800-888-8372 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
- Eye Contact: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
- Skin Contact: If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
- Inhalation: If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call Syngenta (800-888-8372), a poison control center or doctor for further treatment advice.

#### Most important symptoms/effects:

## Eye irritation

Allergic skin reaction

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Respiratory irritation

Indication of immediate medical attention and special treatment needed:

There is no specific antidote if this product is ingested.

Treat symptomatically.

Persons suffering a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

Contains petroleum distillate - vomiting may cause aspiration pneumonia.

#### **5. FIRE FIGHTING MEASURES**

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Special protective equipment and precautions for firefighters:

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container, seal container and arrange for disposition.

#### 7. HANDLING AND STORAGE

Precautions for safe handling:

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities: Store locked up.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

#### FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Occupational Exposure Limits:

Chemical Name	OSHA PEL	ACGIH TLV	Other	Source
Naphthalene	10 ppm TWA	10 ppm TWA (skin)	10 ppm TWA	NIOSH

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Petroleum Solve	ent	Not Established	Not Established	100 mg/m³ (15-17 ppm) TWA	Manufacturer
Other ingredien	ts	Not Applicable	Not Applicable	Not Applicable	Not Applicable
S-Metolachlor		Not Established	Not Established	5 mg/m³ TWA	Syngenta

#### Appropriate engineering controls:

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Use effective engineering controls to comply with occupational exposure limits (if applicable).

#### Individual protection measures:

#### Ingestion:

Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

#### Eye Contact:

Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

#### Skin Contact:

Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber or Viton), coveralls, socks and chemical-resistant footwear.

#### Inhalation:

A combination particulate/ organic vapor respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with an HE prefilter.

Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Golden brown liquid				
Odor: Sweet				
Odor Threshold: Not Available				
pH: 5 - 7 (1% solution in H2O @ 77°F (25°C))				
Melting point/freezing point: Not Available				
Initial boiling point and boiling range: Not Available				
Flash Point (Test Method): > 212°F (Pensky-Martens CC)				
Flammable Limits (% in Air): Not Available				
Flammability: Not Applicable				
Vapor Pressure: S-Metolachlor 2.8 x 10(-5) mmHg @ 77°F (25°C)				
Vapor Density: Not Available				
Relative Density: 1.09 g/cc typical @ 68°F (20°C)				
Solubility (ies): S-Metolachlor 0.48 g/l @ 77°F (25°C)				
Partition coefficient: n-octanol/water: Not Available				
Autoignition Temperature: Not Available				
Decomposition Temperature: Not Available				

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Viscosity: Not Available

Other: None

### **10. STABILITY AND REACTIVITY**

Reactivity: Not reactive.

Chemical stability: Stable under normal use and storage conditions.

Possibility of hazardous reactions: Will not occur.

Conditions to Avoid: Not Available

Incompatible materials: None known.

Hazardous Decomposition Products: Not Available

## **11. TOXICOLOGICAL INFORMATION**

Health effects information

Likely routes of exposure: Dermal, Inhalation

Symptoms of exposure: Eye irritation, Respiratory irritation

Delayed, immediate and chronic effects of exposure: Possible carcinogenicity, Eye irritation, Allergic skin reaction, Respiratory irritation

#### Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

Ingestion:	Oral (LD50 Rat) :	3425 mg/kg body weight
Dermal:	Dermal (LD50 Rabbit) :	> 2000 mg/kg body weight
Inhalation:	Inhalation (LC50 Rat) :	> 2.61 mg/l air - 4 hours
Eye Contact:	Moderately Irritating (Rabbit)	
Skin Contact:	Slightly Irritating (Rabbit)	
Skin Sensitization:	Sensitizing (Guinea Pig)	

#### Reproductive/Developmental Effects

S-Metolachlor: Did not show reproductive effects in animal experiments.

#### Chronic/Subchronic Toxicity Studies

S-Metolachlor: No adverse effect has been observed in chronic toxicity tests.

#### **Carcinogenicity**

S-Metolachlor: Did not show carcinogenic effects in animal experiments.

## Chemical Name

NTP/IARC/OSHA Carcinogen

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Petroleum Sol	vent	No
Other ingredie	nts	No
	chloro-N-(2-ethyl-6- -N-(2-methoxy-1-methylethyl]-	No
Other Toxicity	Information	
None		
Toxicity of Othe	er Components	
Naphthalen	e	
Ca	emia, damage to red blood cell arcinogen Status:	is, ieukocytosis, of coma.
IA	<ul><li>P: Anticipated Carcinogen</li><li>RC: Group 2B Possible Humar</li></ul>	n Carcinogen
IAI Other ingre	RC: Group 2B Possible Humar dients	n Carcinogen
IAI Other ingre	RC: Group 2B Possible Humar	n Carcinogen
IAI Other ingre	RC: Group 2B Possible Humar dients ot Applicable	n Carcinogen
IA Other ingre No Petroleum	RC: Group 2B Possible Humar dients ot Applicable Solvent	
IA Other ingre No Petroleum	RC: Group 2B Possible Humar dients ot Applicable Solvent ay cause irritation to the eyes, s	n Carcinogen skin and respiratory system. Excessive inhalation causes headache, dizziness,
IAI Other ingre No Petroleum Ma na	RC: Group 2B Possible Human dients of Applicable Solvent ay cause irritation to the eyes, s usea and loss of motor skills.	
IA Other ingre No Petroleum Ma na <u>Target Organs</u>	RC: Group 2B Possible Human dients of Applicable Solvent ay cause irritation to the eyes, s usea and loss of motor skills.	
IA Other ingre No Petroleum Ma na <u>Target Organs</u> <u>Active Ingre</u>	RC: Group 2B Possible Human dients of Applicable Solvent ay cause irritation to the eyes, s usea and loss of motor skills.	
IAI Other ingre No Petroleum Ma na <u>Target Organs</u> <u>Active Ingre</u> S-Metolach	RC: Group 2B Possible Human dients of Applicable Solvent ay cause irritation to the eyes, s usea and loss of motor skills. edients lor: Liver lients	
IA Other ingre No Petroleum Ma na <u>Target Organs</u> <u>Active Ingre</u> S-Metolach <u>Inert Ingred</u>	RC: Group 2B Possible Human dients of Applicable Solvent ay cause irritation to the eyes, s usea and loss of motor skills. edients lor: Liver lients le: Eye, l	skin and respiratory system. Excessive inhalation causes headache, dizziness,

Eco-Acute Toxicity S-Metolachlor: Fish (Rainbow Trout) 96-hour LC50 1.23 mg/l Green Algae 96-hour ErC50 0.077 mg/l Invertebrate (Water Flea) 48-hour EC50 11.24 mg/l

**Environmental Fate** 

S-Metolachlor:

The information presented here is for the active ingredient, S-Metolachlor. Low bioaccumulation potential. Not persistent in soil. Stable in water. Sinks in water (after 24 h).

### **13. DISPOSAL CONSIDERATIONS**

#### Disposal:

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable



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Listed Waste:	Not Applicable
14. TRANSPORT I	NFORMATION
DOT Classifica	tion
	ansport - NAFTA < 1700 gal Not regulated
Hazard Cla Identification	> 1700 gal. pping Name: RQ Other Regulated Substances, Liquid, N.O.S. (Naphthalene) iss: Class 9 on Number: NA 3082 ioup: PG III
Proper Ship < 1700 gal. Environmer > 1700 gal. RQ Enviror Hazard Cla Identificatio	ntally Hazardous Substance, Liquid, N.O.S. (s-Metolachlor), Marine Pollutant
Air Transpo	ort

Air Transport Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (s-Metolachlor) Hazard Class: Class 9 Identification Number: UN 3082 Packing Group: PG III

#### **15. REGULATORY INFORMATION**

Pesticide Registration:

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: Causes moderate eye irritation. Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin, or clothing. 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. Pprolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

EPA Registration Number(s):

100-816

EPCRA SARA Title III Classification:

Section 311/312 Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: Naphthalene <1.0% (CAS No. 91-20-3)

California Proposition 65:

This product contains a chemical known to the State of California to cause cancer.

CERCLA/SARA 304 Reportable Quantity (RQ):

Report product spills > 2,500 gal. (based on naphthalene [RQ = 100 lbs.] content in the formulation)

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Date: 2/22/2	2021					
Replaces: 8/4/20	015					
RCRA Hazardous Was	ste Classification (40	CFR 261):				
Not Applicable						
TSCA Status:						
Exempt from TSCA, s	subject to FIFRA					
16. OTHER INFORMATION	N					
NFPA Hazard Ratings		HMIS Hazard Ratings	<u>}</u>	0	Minimal	
Health:	2	Health:		2 1	Slight	
Flammability:	1	Flammability:		1 2	Moderate	
Instability:	0	Reactivity:		0 3	Serious	
Syngenta Hazard Category: D,S				4 *	Extreme Chronic	
	For non-	emergency questions a	bout this product	call:		
		1-800-334-94	481			
Original Issued Date	e: 9/26/1996					
Revision Date:	2/22/2021	Replaces:	8/4/2015			
Section(s) Revised:	15					