

Version 3.0

Issue Date	:	03/18/2019	Ref. 130000030065
Revision Date	:	10/19/2018	

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name Tradename/Synonym	:	DuPont™ Cinch® Herbicide DuPont DPX-H1D19 Herbicide DPX-H1D19
Product Use	:	Herbicide
Restrictions on use	:	This product is intended to be used as a pesticide
Manufacturer/Supplier	:	DuPont 974 Centre Road Wilmington, DE 19805, USA
Product Information Medical Emergency Transport Emergency	:	1-800-441-7515 (outside the U.S. 1-302-774-1000) 1-800-441-3637 (outside the U.S. 1-302-774-1139) +1-800-424-9300 (outside the U.S. +1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION

Product hazard category

Acute toxicity (Inhalation)	Category 4
Serious eye damage/eye irritation	Category 2B
Carcinogenicity	Category 1B
Specific target organ toxicity -	Category 3
single exposure	
Specific target organ toxicity -	Category 2
repeated exposure	
Aspiration hazard	Category 1

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DuPont[™] Cinch[®] Herbicide

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Label content Pictogram	:	:			
Signal word		Danger			
Hazardous warnings		: May be f	atal if swallowe	ed and enters a	airways.

May be fatal if swallowed and enters airways.
Causes eye irritation.
Harmful if inhaled.
May cause respiratory irritation.
May cause drowsiness or dizziness.
May cause cancer.
May cause damage to organs through prolonged or repeated exposure.



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Hazardous prevention measures		Do not breathe dust/ fu Wash skin thoroughly Use only outdoors or in Use personal protectiv IF SWALLOWED: Imm IF INHALED: Remove comfortable for breath IF IN EYES: Rinse cau lenses, if present and o IF exposed or concern Do NOT induce vomitii If eye irritation persists Store in a well-ventilate Store locked up.	safety precautions have been read and understood. ume/ gas/ mist/ vapours/ spray. after handling. n a well-ventilated area. e equipment as required. nediately call a POISON CENTER/doctor. victim to fresh air and keep at rest in a position ng. utiously with water for several minutes. Remove contact easy to do. Continue rinsing. ed: Get medical advice/ attention.

Other hazards

Information presented in Section 2 conforms to the requirements of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state Regulatory Agencies.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Naphthalene	91-20-3	<=5 %
S-Metolachlor	87392-12-9	82.4 %
Benoxacor	98730-04-2	5 - 10 %
Other Ingredients		2.5 - 7.5 %

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.



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SECTION 4. FIRST AID MEASURES

General advice	: Information presented in Section 4 conforms to the requirements of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state Regulatory Agencies.
	Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies involving this product, call toll free 1-800-441-3637. See Label for Additional Precautions and Directions for Use.
Inhalation	: Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.
Skin contact	: Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Eye contact	: Hold eye open and rinse 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.
Ingestion	: Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person.
Most important symptoms/effects, acute	: No applicable data available.
and delayed Protection of first-aiders Notes to physician	No applicable data available.No applicable data available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray, Dry chemical, Foam, Carbon dioxide (CO2)

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Unsuitable extinguishing media		: High volume water je	t, (contamination risk)
Specific hazards		: No applicable data av	ailable.
Special protective equipme for firefighters	ent	: Wear full protective c	lothing and self-contained breathing apparatus.
Further information			a is heavily exposed to fire and if conditions permit, let ce water may increase the area contaminated. Cool water spray.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel)	vacuate personnel, thoroughly ventilate area, use self-contained oparatus. Use personal protective equipment.	breathing
Environmental precautions	revent material from entering sewers, waterways, or low areas.	
Spill Cleanup	oak up with sawdust, sand, oil dry or other absorbent material. D n approved container. liquid has been spilt in large quantities clean up promptly by scoo acuum.	
Accidental Release Measures	ever return spills in original containers for re-use. Dispose of in a ith local regulations.	ccordance

SECTION 7. HANDLING AND STORAGE

Handling (Personnel)
 Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.



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Handling (Physical Aspects)	: Keep away from heat and sources of ignition.
Dust explosion class Storage	 No applicable data available. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original container. Keep tightly closed in a dry, cool and well- ventilated place. Keep out of the reach of children.
Storage period	: No applicable data available.
Storage temperature	: No applicable data available.
SECTION 8. EXPOSURE CONT	ROLS/PERSONAL PROTECTION
Engineering controls	: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS. Refer to the product label for additional Engineering Controls. Information presented in Section 8 conforms to the requirements of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state Regulatory Agencies.
Personal protective equipmen Skin and body protection	 Applicators and other handlers must wear: Long sleeved shirt and long pants Chemical resistant gloves, such as barrier laminate or Viton Shoes plus socks PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: Coveralls Chemical resistant gloves, such as barrier laminate or Viton
Protective measures	: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Use this product in accordance with its label.
Exposure Guidelines	
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Exposure Limit Values

Naphthalene			
Permissible exposure limit:	(OSHA)	10 ppm 50 mg/m3	8 hr. TWA
TLV	(ACGIH)	10 ppm	TWA
TLV	(ACGIH)		Skin
AEL *	(DuPont)	0.1 ppm	8 & 12 hr. TWA

S-Metolachlor

No applicable data available.

Benoxacor

No applicable data available.

Biological Exposure Indices

Naphthalene

Naphthalene		
BEI	(ACGIH)	1-Naphthol, with hydrolysis + 2-Naphthol,
		with hydrolysis/
		Sampling time: End of shift.

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Physical state Form Color	: liquid : liquid : dark brown
Odor	: petrol-like
Odor threshold	: No applicable data available.
рН	: 7.2 at 25 °C (77 °F)
Melting point/range	: No applicable data available.
Boiling point/boiling range	: No applicable data available.
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Flash point	: > 200 °F	
Evaporation rate	: No applicable data a	vailable.
Flammability (solid, gas)	: No applicable data a	available.
Upper explosion limit	: No applicable data a	available.
Lower explosion limit	: No applicable data a	available.
Vapor pressure	: at 25 °C (77 °F)	
Vapour density	: No applicable data a	vailable.
Specific gravity (Relative density)	: 1.11 at 20 °C (68 °F)	
Water solubility	: No applicable data a	vailable.
Solubility(ies)	: at 25 °C (77 °F)	
Partition coefficient: n- octanol/water	: No applicable data a	vailable.
Auto-ignition temperature	: No applicable data a	available.
Decomposition temperature	: No applicable data a	available.
Viscosity, kinematic	: No applicable data a	available.
Viscosity, dynamic	: No applicable data a	available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: N	o hazards to be specially mentioned.
Chemical stability	us	he product is chemically stable under recommended conditions of storage, se and temperature. table at normal temperatures and storage conditions.
Possibility of hazardous reactions	: P	olymerization will not occur.
Conditions to avoid	: N	one known.
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Incompatible materials :	None known.				
Hazardous decomposition : products					
SECTION 11. TOXICOLOGICAL INF	RMATION				
DuPont [™] Cinch [®] Herbicide Inhalation 4 h LC50	: > 3.8 mg/l , Rat				
Dermal LD50	: > 2,020 mg/kg , Rabbit				
Oral LD50	: 2,149 mg/kg , Rat				
Skin irritation	: slight irritation, Rabbit				
	No skin irritation, Rabbit Minimal effects that do not meet the threshold for classification.				
Eye irritation	: Mild eye irritation, Rabbit				
Sensitisation	: Did not cause sensitisation on laboratory animals., Guinea pig				
Carcinogenicity	: Possible human carcinogen				
Further information	: Information presented in this Section conforms to the requirements the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticit Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state Regulatory Agencies.	b			
Naphthalene	-				
Inhalation	 Rat An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration. altered hematology eye effects 				
Naphthalene Repeated dose toxicity	: Inhalation				
	multiple species				
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				 90 d vapour No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., eye effects, Liver effects, Kidney effects, Respiratory effects, Red blood cell destruction causing abnormal decrease in number of red blood cells (anaemia), nasal damage
				Oral Rat - 90 dMethod: OECD Test Guideline 408 No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., Central nervous system effects, altered hematology, Kidney effects, Thymus effects
				Dermal Rat - 90 dMethod: OECD Test Guideline 411 No toxicologically significant effects were found.
	Mutagenicity		:	Animal testing did not show any mutagenic effects. Did not cause genetic damage in cultured bacterial cells. Genetic damage in cultured mammalian cells was observed in one laboratory test but was not observed in others.
	Teratogenicity		:	Animal testing showed no developmental toxicity.
S-Metolach	lor Repeated dose	toxi	city :	No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., Liver effects
	Reproductive to	xicit	у:	No toxicity to reproduction
Benoxacor	Repeated dose	toxi	city :	Ingestion multiple species
				- No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., Gastrointestinal effects, Liver effects, Kidney effects
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DuPont™ Cinch® Herbicid	e			®
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Carcinogenicity The carcinogenicity classificatio HazCom 2012, Appendix A.6. Program (NTP) Report on Carc International Agency for Resea	The classifications inogens (latest ed	may differ from th this ition) or those foun	ose listed in the Nationa d to be a potential carci	I Toxicology
Material	IARC	NTP	OSHA	
Naphthalene	2B	х		
SECTION 12. ECOLOGICAL INFORMA	ATION			
Aquatic Toxicity Naphthalene				
96 h LC50	: Fish (unspe	cified species) 0.9	6 mg/l	
8 d NOEC	: Lemna gibb	a (duckweed) > 16	6 mg/I ASTM E 1415-91	
48 h EC50	: Daphnia ma	: Daphnia magna (Water flea) 2.16 mg/I OECD Test Guideline 202		
40 d	: NOEC Fish (unspecified species) 0.12 mg/l			
28 d	: NOEC Dap	hnia magna (Wate	er flea) 3 mg/l	
S-Metolachlor				
96 h LC50	: Oncorhynch	nus mykiss (rainbo	w trout) 1.23 mg/l	
96 h EC50	: Algae 0.077	′ mg/l		
48 h EC50	: Daphnia ma	agna (Water flea) 1	1.24 mg/l	
Environmental Fate				
Naphthalene Bioaccumulation		Guideline 305 ation is unlikely.		
Additional ecological information	where surfa high water r	ce water is presen mark. Do not conta	ot apply directly to water t, or to intertidal areas b minate water when clea shwaters or rinsate.	elow the mean
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SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - Product	: Do not contaminate water, food or feed by disposal. Open dumping is prohibited. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Pesticide, spray mixture, or rinsate that cannot be used accordin to label instructions must be disposed of properly.	
Waste disposal methods - Container	 Refer to the product label for instructions. Do not transport if this container is damaged or leaking. In the event of a major spill, fire or other emergency, call 1-800-441-3637 or night. 	day
Contaminated packaging	: No applicable data available.	

SECTION 14. TRANSPORT INFORMATION

IATA_C	UN number Proper shipping name	 : 3082 : Environmentally hazardous substance, liquid, n.o.s. (S- Metolachlor, Naphthalene)
	Class	: 9
	Packing group	: III
	Labelling No.	: 9MI
IMDG	UN number	: 3082
	Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (S-Metolachlor, Naphthalene)
	Class	: 9
	Packing group	: 111
	Labelling No.	: 9
	Marine pollutant	: yes (S-Metolachlor, Naphthalene)

Not regulated by DOT unless a single package contains 100 or more pounds Naphthalene.



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Other regulations	: This Safety Data Sheet is for a pesticide product registered by the US
	Environmental Protection Agency (USEPA) and various state regulatory agencies, and is therefore also subject to certain requirements under US and state pesticide laws, including the Federal Insecticide Fungicide and Rodenticide Act (FIFRA). These requirements differ from the classification criteria and hazard information required by OSHA for safety data sheets, and
	for workplace labels of non-pesticide chemicals. The following is information determined by USEPA, and various states.
	CAUTION!
	Causes eye irritation. Harmful if swallowed or absorbed through the skin . Avoid contact with skin, eyes and clothing. May cause skin sensitization reactions in certain individuals.
SARA 311/312 Hazard	: Acute toxicity (any route of exposure)
classification	Serious eye damage or eye irritation Specific target organ toxicity (single or repeated exposure) Aspiration hazard Carcinogenicity
SARA 313 Regulated Chemical(s)	: Naphthalene
PA Right to Know Regulated Chemical(s)	: Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): Naphthalene
EPA Reg. No.	: 352-625 In the United States this product is regulated by the US Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). It is a violation of Federal law to use this product ir a manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.
California Prop. 65	 This product can expose you to Naphthalene, which is/are known to the Stat of California to cause cancer. For more information go to www.P65Warnings.ca.gov.
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SECTION 16. OTHER INFORMATION

		NFPA
Health	:	2
Flammability	:	1
Reactivity/Physical hazard	:	0

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Contact person : DuPont Crop Protection, Wilmington, DE, 19805, Phone: 1-888-638-7668

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.