

**DuPont™ Breakfree® Herbicide**

Version 3.0

Issue Date : 03/18/2019 Ref. 130000029630
Revision Date : 02/11/2019

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 : DuPont™ Breakfree® Herbicide
Tradename/Synonym : DPX-A3049 EC
ACETOCHLOR: 2-chloro-2'-methyl-6'-ethyl-N-ethoxymethylacetanilide

Product Use : Herbicide

Restrictions on use : Do not use product for anything outside of the above specified uses.

Manufacturer/Supplier : DuPont
974 Centre Road
Wilmington, DE 19805, USA

Product Information : 1-800-441-7515 (outside the U.S. 1-302-774-1000)
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)
Transport Emergency : +1-800-424-9300 (outside the U.S. +1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION**Product hazard category**

Acute toxicity (Oral)	Category 4
Skin irritation	Category 2
Skin sensitisation	Category 1
Carcinogenicity	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity - single exposure	Category 3

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Label content

Pictogram :



Signal word : Warning

Hazardous warnings : Harmful if swallowed.
Causes skin irritation.
May cause an allergic skin reaction.
May cause respiratory irritation.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.


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Hazardous prevention measures : Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 Wash skin thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Contaminated work clothing should not be allowed out of the workplace.
 Wear protective gloves.
 Use personal protective equipment as required.
 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
 IF ON SKIN: Wash with plenty of soap and water.
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 IF exposed or concerned: Get medical advice/ attention.
 Rinse mouth.
 If skin irritation or rash occurs: Get medical advice/ attention.
 Take off contaminated clothing and wash before reuse.
 Store in a well-ventilated place. Keep container tightly closed.
 Store locked up.
 Dispose of contents/ container to an approved waste disposal plant.

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.

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 15.9 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Acetochlor	34256-82-1	70.87 %
Dichlormid	37764-25-3	12.2 %
Naphthalene	91-20-3	0.7 %


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Toluene	108-88-3	0.1 %
Other Ingredients		16.13 %

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. Do not give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed : No applicable data available.

Protection of first-aiders : No applicable data available.

Notes to physician : No applicable data available.

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SECTION 5. FIREFIGHTING MEASURESSuitable extinguishing media : Water spray, Dry chemical, Foam, Carbon dioxide (CO₂)

Unsuitable extinguishing media : High volume water jet, (contamination risk)

Specific hazards : Vapours or gases may travel considerable distances to ignition source and flash back.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Further information : If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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) : Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Wear suitable protective equipment.

Environmental precautions : Prevent material from entering sewers, waterways, or low areas.

Spill Cleanup : Sweep up and shovel into suitable containers for disposal.
If liquid has been spilt in large quantities clean up promptly by scoop or vacuum.

Accidental Release Measures : Never return spills in original containers for re-use. Dispose of in accordance with local regulations.



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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.
- Handling (Physical Aspects) : No applicable data available.
 Dust explosion class : No applicable data available.
 Storage : Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not re-use empty containers. Keep out of the reach of children.
- Storage period : No applicable data available.
- Storage temperature : No applicable data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 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. Ensure adequate ventilation. 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.
- Personal protective equipment
 Skin and body protection : Applicators and other handlers must wear:
 Coveralls worn over short-sleeved shirt and short pants
 Chemical resistant gloves made of any waterproof material, such as polyethylene or polyvinyl chloride.
 Chemical resistant footwear plus socks
 Protective eyewear
 Chemical resistant headgear for overhead exposure


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Chemical-resistant apron when cleaning equipment, mixing or loading
 Personal protective equipment required for early entry:
 Coveralls worn over short-sleeved shirt and short pants
 Chemical resistant gloves made of any waterproof material
 Chemical resistant footwear plus socks
 Protective eyewear
 Chemical resistant headgear for overhead exposure

Protective measures : Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them. 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
 Exposure Limit Values

Toluene			
TLV	(ACGIH)	20 ppm	TWA
REL	(NIOSH)	100 ppm 375 mg/m ³	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
REL	(NIOSH)	150 ppm 560 mg/m ³	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
PEL (Permissible Exposure Limit)	(OSHA)	200 ppm	TWA
PEL (Permissible Exposure Limit)	(OSHA)	300 ppm	CEIL
PEL (Permissible Exposure Limit)	(OSHA)	500 ppm	Peak
PEL (Permissible Exposure Limit)	(OSHA)	100 ppm 375 mg/m ³	TWA
PEL (Permissible Exposure Limit)	(OSHA)	150 ppm 560 mg/m ³	STEL
AEL *	(DuPont)	20 ppm	8 & 12 hr. TWA

Naphthalene			
TLV	(ACGIH)	10 ppm	TWA
REL	(NIOSH)	10 ppm 50 mg/m ³	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
REL	(NIOSH)	15 ppm 75 mg/m ³	STEL - 15-minute TWA exposure that should not be exceeded at any time


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			during a workday
PEL (Permissible Exposure Limit)	(OSHA)	10 ppm 50 mg/m3	8 hr. TWA
PEL (Permissible Exposure Limit)	(OSHA)	10 ppm 50 mg/m3	TWA
PEL (Permissible Exposure Limit)	(OSHA)	15 ppm 75 mg/m3	STEL
AEL *	(DuPont)	0.1 ppm	8 & 12 hr. TWA

2-Chloro-N-(ethoxymethyl)-N-(2-ethyl-6-methylphenyl)acetamide

No applicable data available.

N,N-Diallyldichloroacetamide

No applicable data available.

Biological Exposure Indices

Toluene			
BEI	(ACGIH)	0.02 mg/l	Toluene/In blood Prior to last shift of workweek
BEI	(ACGIH)	0.03 mg/l	Toluene/Urine End of shift (As soon as possible after exposure ceases)
BEI	(ACGIH)	0.3	o-Cresol/Urine End of shift (As soon as possible after exposure ceases)

Naphthalene			
BEI	(ACGIH)		1-Naphthol + 2-Naphthol/ End of shift (As soon as possible after exposure ceases)

* 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 : liquid
 Form : liquid
 Color : light amber, to, dark amber

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Odor : aromatic

Odor threshold : No applicable data available.

pH : 6.0

Melting point/range : No applicable data available.

Boiling point/boiling range : Boiling point
not determined

Flash point : > 93 °C
Tag closed cup

Evaporation rate : No applicable data available.

Flammability (solid, gas) : No applicable data available.

Upper explosion limit : No applicable data available.

Lower explosion limit : No applicable data available.

Vapour Pressure : No applicable data available.

Vapour density : No applicable data available.

Density : 9.20 lb/gal at 20 °C (68 °F)

Specific gravity (Relative density) : 1.11 at 25 °C (77 °F)

Bulk density : 1,108.6 kg/m³

Water solubility : emulsifiable

Solubility(ies) : No applicable data available.

Partition coefficient: n-octanol/water : No applicable data available.

Auto-ignition temperature : No applicable data available.

Decomposition temperature : No applicable data available.

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Viscosity, kinematic : No applicable data available.

Viscosity, dynamic : No applicable data available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No applicable data available.
Chemical stability : Stable at normal temperatures and storage conditions.
Possibility of hazardous reactions : Polymerization will not occur.
Conditions to avoid : None reasonably foreseeable.
Incompatible materials : Oxidizing agents
Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:, Carbon dioxide (CO₂), Carbon monoxide, Hydrogen chloride, Sulphur dioxide

SECTION 11. TOXICOLOGICAL INFORMATION

DuPont™ Breakfree® Herbicide
Inhalation 4 h LC50 : > 1.55 mg/l , Rat
Information given is based on data obtained from similar substances.
Dermal LD50 : > 2,240 mg/kg , Rat
Information given is based on data obtained from similar substances.
Oral LD50 : 1,415 mg/kg , Rat
Information given is based on data obtained from similar substances.
Skin irritation : Irritating to skin., Rabbit
Eye irritation : No eye irritation, Rabbit
Minimal effects that do not meet the threshold for classification.
Further information : Information presented in this Section 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.

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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
Acetochlor		
Skin sensitization	:	May cause sensitisation by skin contact., Guinea pig
Repeated dose toxicity	:	Ingestion multiple species - 90 dMethod: OECD Test Guideline 408 altered hematology, altered blood chemistry, Kidney effects, Liver effects Skin contact Rabbit - 21 d NOAEL: 400 mg/kg No toxicologically significant effects were found.
Carcinogenicity	:	Suspected human carcinogens An increased incidence of tumours was observed in laboratory animals. Target(s): Lungs Uterus
Mutagenicity	:	Weight of evidence does not support classification as a germ cell mutagen. Genetic damage in cultured bacterial cells was observed in some laboratory tests but not in others. Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others.
Reproductive toxicity	:	Some evidence of adverse effects on sexual function and fertility, based on animal experiments. Animal testing showed effects on reproduction that included Reduced fertility Pathologic effects on reproductive organs
Teratogenicity	:	Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.



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Dichlormid

- Repeated dose toxicity : multiple species
 -
 No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., Liver effects, Respiratory effects, Central nervous system effects
- Carcinogenicity : Not classifiable as a human carcinogen.
 Animal testing did not show any carcinogenic effects.
- Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
 Animal testing did not show any mutagenic effects.
- Reproductive toxicity : No toxicity to reproduction
- Teratogenicity : Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

Naphthalene

- Skin sensitization : Does not cause skin sensitisation., Guinea pig
- Repeated dose toxicity : Inhalation
 multiple species
 - 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


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- 90 dMethod: OECD Test Guideline 411
 No toxicologically significant effects were found.

Carcinogenicity : Limited evidence of carcinogenicity in inhalation studies with animals. Animal experiments showed a statistically significant number of tumours.
 Target(s):
 Lungs
 Nose

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.

Toluene

Skin sensitization : Does not cause skin sensitisation., Guinea pig
 Does not cause respiratory sensitisation., Not tested on animals

Repeated dose toxicity : Inhalation
 Rat
 - 28 d
 vapour
 LOAEL: 0.3 mg/l
 Target Organs: Central nervous system
 Central nervous system effects

Carcinogenicity : Animal testing did not show any carcinogenic effects.

Mutagenicity : Animal testing did not show any mutagenic effects.
 Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Reproductive toxicity : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.
 Animal testing showed effects on reproduction at levels below those causing parental toxicity that included:
 Reduced sperm count

Teratogenicity : Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.


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Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

Material	IARC	NTP	OSHA
Naphthalene	2B		

SECTION 12. ECOLOGICAL INFORMATION
Aquatic Toxicity
Acetochlor

96 h LC50	: Oncorhynchus mykiss (rainbow trout) 0.36 mg/l OECD Test Guideline 203
72 h ErC50	: Pseudokirchneriella subcapitata (green algae) 0.00052 mg/l OECD Test Guideline 201
72 h NOEC	: Pseudokirchneriella subcapitata (green algae) 0.00013 mg/l
48 h EC50	: Daphnia magna (Water flea) 8.6 mg/l OECD Test Guideline 202
60 d	: NOEC Oncorhynchus mykiss (rainbow trout) 0.13 mg/l US EPA Test Guideline OPP 72-4
21 d	: NOEC Daphnia magna (Water flea) 0.022 mg/l OECD Test Guideline 202

Dichlormid

96 h LC50	: Oncorhynchus mykiss (rainbow trout) 141 mg/l
72 h EC50	: Pseudokirchneriella subcapitata (green algae) 80 mg/l
48 h EC50	: Daphnia magna (Water flea) 161 mg/l

Naphthalene

96 h LC50	: Fish (unspecified species) 0.96 mg/l
8 d NOEC	: Lemna gibba (duckweed) > 16 mg/l ASTM E 1415-91


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48 h EC50 : Daphnia magna (Water flea) 2.16 mg/l OECD Test Guideline 202
 40 d : NOEC Fish (unspecified species) 0.12 mg/l
 28 d : NOEC Daphnia magna (Water flea) 3 mg/l

Toluene

96 h LC50 : Fish (unspecified species) 5.5 mg/l
 72 h EC50 : Algae 207 mg/l
 48 h EC50 : Ceriodaphnia dubia (water flea) 3.78 mg/l
 40 d : NOEC Fish (unspecified species) 1.39 mg/l
 7 d : NOEC Ceriodaphnia dubia (water flea) 0.74 mg/l

Toxicity to other organisms

Acetochlor

LD50 : Colinus virginianus (Bobwhite quail) 928 mg/kg
 LC50 : Colinus virginianus (Bobwhite quail) > 5,620 mg/kg
 LC50 : Anas platyrhynchos (Mallard duck) > 5,620 mg/kg

Environmental Fate

Acetochlor

Bioaccumulation : Bioaccumulation is unlikely.

Naphthalene

Bioaccumulation : OECD Test Guideline 305
 Bioaccumulation is unlikely.

Toluene

Bioaccumulation : Bioaccumulation is unlikely.

Additional ecological information

: Environmental Hazards: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination. See product label for additional application instructions relating to environmental precautions.


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SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - Product : Do not contaminate water, food or feed by disposal. 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. Open dumping is prohibited.

Waste disposal methods - Container : Container Refilling and Disposal:
 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 day or night.

Contaminated packaging : No applicable data available.

SECTION 14. TRANSPORT INFORMATION

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

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


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SECTION 15. REGULATORY INFORMATION

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.

WARNING!

Causes eye and skin irritation. Harmful if swallowed, inhaled or absorbed through skin. Do not get in eyes, on skin, or on clothing. Avoid breathing vapor or spray mist. This product is toxic to fish.

SARA 311/312 Hazard classification : Acute toxicity (any route of exposure)
 Respiratory or skin sensitisation
 Carcinogenicity
 Specific target organ toxicity (single or repeated exposure)
 Reproductive toxicity
 Skin corrosion or irritation

SARA 313 Regulated Chemical(s) : The following components are subject to reporting levels established by SARA Title III, Section 313: 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

CERCLA Reportable Quantity : Based on the percentage composition of this chemical in the product.:

	Naphthalene
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SARA Reportable Quantity : This material does not contain any components with a SARA 302 RQ.

EPA Reg. No. : 352-722
 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 in a manner inconsistent with its labeling. Read and follow all label directions.

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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 State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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.