

**DuPont™ Assure® II Herbicide**

Version 3.0

Issue Date : 03/18/2019 Ref. 130000023960
Revision Date : 02/08/2019

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™ Assure® II Herbicide
Tradename/Synonym : DPX-79376
Assure Pro
Assure Plus
Secure
B10054988
Quizalofop P-ethyl: Ethyl(R)-2-[4-(6-chloroquinoxalin-2-yl
oxy)- phenoxy]propionate

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

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Label content

Pictogram :



Signal word : Danger

Hazardous warnings : May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye damage.
Harmful if inhaled.
May cause respiratory irritation.
May cause drowsiness or dizziness.
May damage fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.


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Hazardous prevention measures : Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
 Wash skin thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Wear eye protection/ face protection.
 Wear protective gloves.
 Use personal protective equipment as required.
 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 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 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 IF exposed or concerned: Get medical advice/ attention.
 Immediately call a POISON CENTER/doctor.
 Do NOT induce vomiting.
 If skin irritation 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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Quizalofop p-ethyl	100646-51-3	10.3 %
Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified	64742-94-5	78.19 %
N-Methyl-2-pyrrolidone	872-50-4	5 - 10 %


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Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified (< 0.1% benzene)	64742-95-6	1 - 5 %
Other Ingredients		<=5.51 %

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

SECTION 4. FIRST AID MEASURES

- General advice : 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.
 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.
- 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. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Do not give any liquid to the person. 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.

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Notes to physician : Probable mucosal damage may contraindicate the use of gastric lavage.
Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO₂)
- Unsuitable extinguishing media : High volume water jet, (contamination risk)
- Specific hazards : No applicable data available.
- Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.
- Further information : Evacuate personnel and keep upwind of fire.
(on small fires) 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.

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, thoroughly ventilate area, use self-contained breathing apparatus. Use personal protective equipment.
- Environmental precautions : Prevent material from entering sewers, waterways, or low areas.
- Spill Cleanup : Dike spill.
Sweep up and shovel into suitable containers for disposal.
If spill area is on ground near valuable plants or trees, remove top 2 inches of soil after initial cleanup.
Dispose of in an approved container.
- 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) : Combustible
Keep away from heat and sources of ignition.
- Dust explosion class : No applicable data available.
- Storage : Store in original container. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in a cool, dry place. 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 : Use only with adequate ventilation. Keep container tightly closed. 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. 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 equipment
- 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



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Protective eyewear
 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
 Shoes plus socks
 Protective eyewear

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.

Exposure Guidelines
 Exposure Limit Values

Quizalofop p-ethyl			
AEL *	(DuPont)	1 mg/m3	12 hr. TWA
AEL *	(DuPont)	0.5 mg/m3	12 hr. TWA
AEL *	(DuPont)	2 mg/m3	8 hr. TWA
AEL *	(DuPont)	1 mg/m3	8 hr. TWA

Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified			
TLV	(ACGIH)	200 mg/m3	TWA
AEL *	(DuPont)	100 ppm	8 & 12 hr. TWA

N-Methyl-2-pyrrolidone			
AEL *	(DuPont)	5 ppm	8 & 12 hr. TWA, Skin

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified (< 0.1% benzene)			
PEL (Permissible Exposure Limit)	(OSHA)	500 ppm 2,000 mg/m3	8 hr. TWA
TLV	(ACGIH)	200 mg/m3	TWA
PEL (Permissible Exposure Limit)	(OSHA)	400 ppm 1,600 mg/m3	TWA

Biological Exposure Indices

N-Methyl-2-pyrrolidone			
BEI	(ACGIH)	100 mg/l	5-Hydroxy-N-methyl-2-pyrrolidone/Urine End of shift (As soon as possible after exposure ceases)

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* 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 : dark amber

Odor : aromatic, hydrocarbon-like

Odor threshold : No applicable data available.

pH : 5 - 7
(1% solution in water)

Melting point/range : No applicable data available.

Boiling point/boiling range : No applicable data available.

Flash point : 98.9 °C
closed cup
Method: Setflash closed cup - SCC

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.

Specific gravity (Relative density) : 1.02

Water solubility : emulsifiable

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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.
Viscosity, kinematic : No applicable data available.
Viscosity, dynamic : No applicable data available.
Oxidizing Substance : The product is not oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No applicable data available.
Chemical stability : Stable at normal temperatures and storage conditions.
Possibility of hazardous reactions : Heating can release vapours which can be ignited. Vapours may form explosive mixture with air. Polymerization will not occur.
Conditions to avoid : Heat, flames and sparks.
Incompatible materials : None reasonably foreseeable.
Hazardous decomposition products : No applicable data available.

SECTION 11. TOXICOLOGICAL INFORMATION

DuPont™ Assure® II Herbicide
Inhalation 4 h LC50 : 2.6 - 4.4 mg/l , Rat
Dermal LD50 : > 2,000 mg/kg , Rabbit
Oral LD50 : 5,900 mg/kg , Rat
Skin irritation : Skin irritation, Rabbit
Eye irritation : Risk of serious damage to eyes., Rabbit
Sensitisation : Did not cause sensitisation on laboratory animals., Guinea pig



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Further information : Information given is based on data on the components and the toxicology of similar products.

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.

Quizalofop p-ethyl

Repeated dose toxicity : Oral - feed
 Mouse
 - 90 d
 Liver effects

Carcinogenicity : Animal testing did not show any carcinogenic effects.
 Not classifiable as a human carcinogen.

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

Reproductive toxicity : No toxicity to reproduction

Teratogenicity : Animal testing showed no developmental toxicity.

Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified

Repeated dose toxicity : Ingestion
 Rat
 - 90 d
 No toxicologically significant effects were found.

Inhalation
 Rat
 - 90 d Method: OECD Test Guideline 413
 No toxicologically significant effects were found.

Skin contact
 Rat
 - 28 d Method: OECD Test Guideline 410
 No toxicologically significant effects were found.

Carcinogenicity : Weight of evidence does not support classification as a carcinogen
 Overall weight of evidence indicates that the substance is not carcinogenic.


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Information given is based on data obtained from similar substances.

Mutagenicity : Animal testing did not show any mutagenic effects.
 Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
 Information given is based on data obtained from similar substances.

Reproductive toxicity : Weight of evidence does not support classification for reproductive toxicity
 Evidence suggests the substance is not a reproductive toxin in animals.
 No effects on or via lactation
 Information given is based on data obtained from similar substances.

Teratogenicity : Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.
 Information given is based on data obtained from similar substances.

N-Methyl-2-pyrrolidone

Repeated dose toxicity

: Ingestion
 Rat
 - 90 d
 NOAEL: 169 mg/kg
 LOAEL: 433 mg/kg Method: OECD Test Guideline 408
 No toxicologically significant effects were found.

Inhalation
 Rat
 - 90 d
 dust/mist
 NOAEL: 0.5 mg/l
 LOAEL: 1 mg/l Method: OECD Test Guideline 413
 No toxicologically significant effects were found.

Skin contact
 Rabbit
 - 20 d
 NOAEL: 826 mg/kg Method: OECD Test Guideline 410
 No toxicologically significant effects were found.

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.



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Reproductive toxicity : Animal testing showed no reproductive toxicity.
 Clear evidence of adverse effects on development, based on animal experiments.

Teratogenicity : Animal testing showed effects on embryo-foetal development including:
 Reduced embryo-foetal viability
 Reduced growth
 Foetal malformations
 Delayed foetal development (variations)

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified (< 0.1% benzene)

Repeated dose toxicity : Skin contact
 Rat
 -
 NOAEL: 3,750 mg/kg
 No toxicologically significant effects were found., Information given is based on data obtained from similar substances.

Carcinogenicity : Not classifiable as a human carcinogen.
 Animal testing did not show any carcinogenic effects.
 Information given is based on data obtained from similar substances.

Mutagenicity : Animal testing did not show any mutagenic effects.
 Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
 Information given is based on data obtained from similar substances.

Reproductive toxicity : No toxicity to reproduction
 Animal testing showed no reproductive toxicity.
 No effects on or via lactation
 Information given is based on data obtained from similar substances.

Teratogenicity : Animal testing showed no developmental toxicity.
 Information given is based on data obtained from similar substances.

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).

None of the components present in this material at concentrations equal to or greater than 0.1% are listed


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by IARC, NTP, or OSHA, as a carcinogen.

Solvent naphtha
 (petroleum), heavy arom.;
 Kerosine - unspecified

Solvent naphtha
 (petroleum), light arom.;
 Low boiling point naphtha
 - unspecified (< 0.1%
 benzene)

SECTION 12. ECOLOGICAL INFORMATION
Aquatic Toxicity
Quizalofop p-ethyl

96 h LC50	:	Oncorhynchus mykiss (rainbow trout) 0.72 mg/l
72 h ErC50	:	Pseudokirchneriella subcapitata (green algae) 0.021 mg/l
48 h EC50	:	Daphnia magna (Water flea) 51.9 mg/l
21 d	:	NOEC Daphnia magna (Water flea) 0.787 mg/l

Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified

96 h LC50	:	Oncorhynchus mykiss (rainbow trout) 2 mg/l OECD Test Guideline 203
72 h EC50	:	Pseudokirchneriella subcapitata (green algae) 1 mg/l OECD Test Guideline 201
96 h NOEC	:	Pseudokirchneriella subcapitata (green algae) 0.4 mg/l OECD Test Guideline 201 Information given is based on data obtained from similar substances.
48 h EC50	:	Daphnia magna (Water flea) 3 mg/l OECD Test Guideline 202
21 d	:	NOEC Daphnia magna (Water flea) 0.48 mg/l OECD Test Guideline 211 Information given is based on data obtained from similar substances.

N-Methyl-2-pyrrolidone

96 h LC50	:	Oncorhynchus mykiss (rainbow trout) > 500 mg/l
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72 h EC50 : Desmodesmus subspicatus (green algae) 600.5 mg/l DIN 38412
 72 h NOEC : Desmodesmus subspicatus (green algae) 125 mg/l DIN 38412
 48 h EC50 : Daphnia magna (Water flea) 4,897 mg/l
 21 d : NOEC Daphnia magna (Water flea) 12.5 mg/l OECD Test Guideline 211

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified (< 0.1% benzene)
 96 h LC50 : Pimephales promelas (fathead minnow) 8.2 mg/l
 Information given is based on data obtained from similar substances.

72 h ErC50 : Pseudokirchneriella subcapitata (green algae) 3.1 mg/l OECD Test Guideline 201
 Information given is based on data obtained from similar substances.

72 h NOEC : Pseudokirchneriella subcapitata (green algae) 0.5 mg/l OECD Test Guideline 201
 Information given is based on data obtained from similar substances.

48 h EC50 : Daphnia magna (Water flea) 4.5 mg/l OECD Test Guideline 202
 Information given is based on data obtained from similar substances.

21 d : NOEC Daphnia magna (Water flea) 2.6 mg/l OECD Test Guideline 211
 Information given is based on data obtained from similar substances.

Environmental Fate

Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified
 Bioaccumulation : The substance has the potential to bioaccumulate.
 Information given is based on data obtained from similar substances.

N-Methyl-2-pyrrolidone
 Bioaccumulation : Bioaccumulation is unlikely.

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified (< 0.1% benzene)
 Biodegradability : Biodegradable OECD Test Guideline 301
 Information given is based on data obtained from similar substances.

Additional ecological information : 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.


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SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - Product : Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

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	: 3334
	Proper shipping name	: Aviation regulated liquid, n.o.s. (Quizalofop p-ethyl)
	Class	: 9
	Packing group	: III
IMDG	Labelling No.	: 9
	UN number	: 3082
	Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quizalofop p-ethyl)
	Class	: 9
	Packing group	: III
	Labelling No.	: 9
	Marine pollutant	: yes (Quizalofop p-ethyl)

Not regulated by DOT/49 CFR unless shipped in bulk package or by water.

SECTION 15. REGULATORY INFORMATION

Other regulations : This Safety Data Sheet is for a pesticide product registered by the US



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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.

Danger

Causes irreversible eye damage. Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mist. This product is toxic to fish. This product is toxic to: Aquatic invertebrates

SARA 311/312 Hazard classification : Acute toxicity (any route of exposure)
 Skin corrosion or irritation
 Specific target organ toxicity (single or repeated exposure)
 Aspiration hazard
 Reproductive toxicity
 Serious eye damage or eye irritation

SARA 313 Regulated Chemical(s) : The following components are subject to reporting levels established by SARA Title III, Section 313: N-Methyl-2-pyrrolidone

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): Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified, N-Methyl-2-pyrrolidone, Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified (< 0.1% benzene), 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. : 352-541
 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. This product is excluded from listing requirements under EPA/TSCA.

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California Prop. 65 : This product can expose you to substances including Naphthalene, which is/are known to the State of California to cause cancer, and N-Methyl-2-pyrrolidone, which is/are known to the State of California to cause birth defects or other reproductive harm. 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.