 SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: DuPont™ Envive® Herbicide
Tradename/Synonym: DuPont™ Combo 770 Herbicide
DuPont™ Herbicide 770 SB
DPX-QER54
B12500618
Chlorimuron ethyl: Ethyl 2-[[4-chloro-6-methoxypyrimidin-2-yl]amino][carbonyl]amino][sulfonyl]benzoate
Flumioxazin :2-[7-fluor-3,4-dihydro-3oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-4,5,6,7-tetrahydro-1H-isoindole-1,3(2H)-dione
Thifensulfuron methyl: Methyl 3-[[4-methoxo-6-methyl-1,3,5-triazin-2-yl]amino][carbonyl][amino][sulfonyl]-2-thiophenecarboxylate

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
Reproductive toxicity Category 2
Label content
Pictogram:

Signal word: Warning
Hazardous warnings:
- Harmful if inhaled.
- Suspected of damaging fertility or the unborn child.

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.
- Use only outdoors or in a well-ventilated area.
- Use personal protective equipment as required.
- 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.
- 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
DuPont™ Envive® Herbicide

Version 3.0

Issue Date : 03/18/2019     Ref. 130000036267
Revision Date : 10/19/2018

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Concentration</th>
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</thead>
<tbody>
<tr>
<td>Thifensulfuron methyl</td>
<td>79277-27-3</td>
<td>2.9 %</td>
</tr>
<tr>
<td>Chlorimuron ethyl</td>
<td>90982-32-4</td>
<td>9.23 %</td>
</tr>
<tr>
<td>Flumioxazin</td>
<td>103361-09-7</td>
<td>29.22 %</td>
</tr>
<tr>
<td>Sodium carbonate</td>
<td>497-19-8</td>
<td>0.1 - 1 %</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>0.1 - 0.5 %</td>
</tr>
<tr>
<td>Other Ingredients</td>
<td></td>
<td>57.55 - 58.5 %</td>
</tr>
</tbody>
</table>

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.

For medical emergencies involving this product, call toll free 1-800-441-3637. See Label for Additional Precautions and Directions for Use.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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.

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: Control Runoff. 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: Sweep up and shovel into suitable containers for disposal. For minor spills, leaks, etc., follow all precautions indicated on the label and
Safety Data Sheet

**DuPont™ Envive® Herbicide**

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

**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)** : Keep away from heat and sources of ignition. Avoid dust formation.

**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** : 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.
IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified for "Applicators and Other Handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

Personal protective equipment

Skin and body protection: Mixers, loaders, applicators and other handlers must wear:
- Long sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material, such as polyethylene or polyvinyl chloride.
- 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 made of any waterproof material, such as polyvinyl chloride, nitrile rubber, or butyl rubber
  - Shoes plus socks

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

Exposure Limit Values

<table>
<thead>
<tr>
<th>Chemical</th>
<th>AEL *</th>
<th>(DuPont)</th>
<th>Value</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate</td>
<td>5 mg/m3</td>
<td>8 &amp; 12 hr. TWA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thifensulfuron methyl</td>
<td>5 mg/m3</td>
<td>8 &amp; 12 hr. TWA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chlorimuron ethyl</td>
<td>10 mg/m3</td>
<td>8 &amp; 12 hr. TWA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flumioxazin</td>
<td>5 mg/m3</td>
<td>8 &amp; 12 hr. TWA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>15 mg/m3</td>
<td>8 hr. TWA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

No applicable data available.
Permissible exposure limit: (OSHA) 15 millions of particles per cubic foot of air TWA
Permissible exposure limit: (OSHA) 15 mg/m³ TWA
Permissible exposure limit: (OSHA) 50 millions of particles per cubic foot of air TWA
Permissible exposure limit: (OSHA) 5 mg/m³ TWA
TLV (ACGIH) 10 mg/m³ TWA
AEL * (DuPont) 10 mg/m³ 8 & 12 hr. TWA
AEL * (DuPont) 5 mg/m³ 8 & 12 hr. TWA

Other Ingredients
No applicable data available.

* 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 : solid
Form : dry, free flowing, water dispersible granules
Color : ivory, light brown
Odor : slight
Odor threshold : No applicable data available.
pH : 6.3 - 7.1
Melting point/range : No applicable data available.
Boiling point/boiling range : No applicable data available.
Flash point : No applicable data available.
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) : No applicable data available.
Water solubility : No applicable data available.
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.

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 : No materials to be especially mentioned. oxidizing agents (strong)
Hazardous decomposition products : Decomposition will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION
DuPont™ Envive® Herbicide
Inhalation 4 h Acute : > 1.7 mg/l, Rat
Dermal Acute toxicity estimate:
> 2,689 mg/kg, Rabbit

Dermal:
Rat

Oral Acute toxicity estimate:
> 5,000 mg/kg, Rat

Skin irritation:
No skin irritation, Rabbit
Minimal effects that do not meet the threshold for classification.

Eye irritation:
No eye irritation, Rabbit
Minimal effects that do not meet the threshold for classification.

Sensitisation:
Did not cause sensitisation on laboratory animals., Guinea pig

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.

Further information:
Information given is based on data on the components.

Thifensulfuron methyl
Repeated dose toxicity:
The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Oral - feed
multiple species
- Reduced body weight gain

Carcinogenicity:
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
Animal testing showed no reproductive toxicity.

Teratogenicity:
Did not show teratogenic effects in animal experiments.
Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.
Chlorimuron ethyl

Repeated dose toxicity:

The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Dermal
Rabbit
- No toxicologically significant effects were found.

Oral
Dog
- No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification.

Oral
Rat
- No adverse effect has been observed in chronic toxicity tests.

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.

Flumioxazin

Repeated dose toxicity:

Ingestion
Rat
- No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification.

Ingestion
Dog
   - No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., altered hematology, altered blood chemistry, Organ weight changes, Liver effects

Ingestion
   Mouse
   - No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., Liver effects

Carcinogenicity : Animal testing did not show any carcinogenic effects.

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 some laboratory tests but not in others.

Reproductive toxicity : Experiments have shown reproductive toxicity effects on laboratory animals.

Teratogenicity : Animal testing in one species showed effects on embryo-foetal developmental at levels below those causing maternal toxicity; however, no developmental toxicity was seen in a different species. Mechanistic data supports the position that the effects observed in animals are not relevant to humans.

Sodium carbonate
   Repeated dose toxicity : Inhalation human
   - No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification.

Carcinogenicity : Weight of evidence does not support classification as a carcinogen.

Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Weight of evidence does not support classification as a germ cell mutagen. Information given is based on data obtained from similar substances.
Reproductive toxicity: Weight of evidence does not support classification for reproductive toxicity.

Teratogenicity: Animal testing showed no developmental toxicity.

Titanium dioxide

Reproductive toxicity: Animal testing showed no reproductive toxicity.

Carcinogenicity: Not classifiable as a human carcinogen.

Mutagenicity: Animal testing did not show any mutagenic effects.

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).

<table>
<thead>
<tr>
<th>Material</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>2B</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Aquatic Toxicity

Thifensulfuron methyl

96 h LC50: Oncorhynchus mykiss (rainbow trout) > 100 mg/l
14 d EC50: Lemna minor (duckweed) 0.0013 mg/l
48 h EC50: Daphnia magna (Water flea) 470 mg/l
28 d: NOEC Americamysis bahia (mysid shrimp) 7.93 mg/l

Chlorimuron ethyl

96 h LC50: Oncorhynchus mykiss (rainbow trout) > 1,000 mg/l
96 h LC50: Lepomis macrochirus (Bluegill sunfish) > 100 mg/l
72 h EC50: Pseudokirchneriella subcapitata (green algae) 0.001 mg/l
48 h EC50: Daphnia magna (Water flea) > 1,000 mg/l

Flumioxazin

96 h LC50: Cyprinus carpio (Carp) > 1.3 mg/l
72 h EC50: Desmodesmus subspicatus (green algae) 0.0006 mg/l
72 h NOEC: Desmodesmus subspicatus (green algae) 0.00023 mg/l
48 h EC50: Americamysis bahia (mysid shrimp) 0.23 mg/l
21 d: NOEC Oncorhynchus mykiss (rainbow trout) > 0.0077 mg/l
21 d: NOEC Americamysis bahia (mysid shrimp) > 0.015 mg/l

Sodium carbonate

96 h LC50: Lepomis macrochirus (Bluegill sunfish) 300 mg/l
48 h LC50: Ceriodaphnia dubia (water flea) 200 mg/l

Titanium dioxide

96 h LC50: Pimephales promelas (fathead minnow) > 1,000 mg/l
72 h ErC50: Pseudokirchneriella subcapitata (green algae) > 100 mg/l see user defined free text
72 h NOEC: Algae 5,600 mg/l see user defined free text
Environmental Fate

Sodium carbonate

Bioaccumulation : Does not bioaccumulate.

Additional ecological information: Environmental Hazards: This product is toxic to non-target plants. Toxic to aquatic organisms. 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. Do not apply where/when conditions favour runoff. See product label for additional application instructions relating to environmental precautions.

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

Proper shipping name : Environmentally hazardous substance, solid, n.o.s. (Flumioxazin)

Class : 9

Packing group : III

Labelling No. : 9MI

IMDG

UN number : 3077
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Flumioxazin)

Class: 9
Packing group: III
Labelling No.: 9
Marine pollutant: yes (Flumioxazin)

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 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!

Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes and clothing. Avoid breathing dust or spray mist. Remove and wash contaminated clothing before re-use.

SARA 311/312 Hazard classification:
Reproductive toxicity
Acute toxicity (any route of exposure)

SARA 313 Regulated Chemical(s): Chlorimuron ethyl

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): Kaolin, Sucrose, Sodium sulphate

EPA Reg. No.: 352-756
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.

California Prop. 65 : This product can expose you to substances including Titanium dioxide, 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

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity/Physical hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

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® Registered trademark of E.I. du Pont de Nemours and Company

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