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

<table>
<thead>
<tr>
<th>Product name</th>
<th>DuPont™ Streamline® Herbicide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tradename/Synonym</td>
<td>DPX-Q2K13</td>
</tr>
<tr>
<td></td>
<td>DPX-Q2K13 WG / DF</td>
</tr>
<tr>
<td></td>
<td>AMINOCYCLOPYRACHLOR: 6-Amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylic acid</td>
</tr>
<tr>
<td></td>
<td>METSULFURON METHYL: Methyl 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-y)amino]carbonyl]amino]sulfonyl]benzoate</td>
</tr>
</tbody>
</table>

| Product Use           | Herbicide                     |

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

| Manufacturer/Supplier | DuPont                        |
|                       | 4417 Lancaster Pike           |
|                       | 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   | CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887) |

### SECTION 2. HAZARDS IDENTIFICATION

Not classified as a hazardous substance or mixture according to the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard 2012.

**Other hazards**

If you mill or grind this product you may change its toxicological properties.
SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aminocyclopyrachlor</td>
<td>858956-08-8</td>
<td>39.5 %</td>
</tr>
<tr>
<td>Metsulfuron methyl</td>
<td>74223-64-6</td>
<td>12.6 %</td>
</tr>
<tr>
<td>Sodium carbonate</td>
<td>497-19-8</td>
<td>10.74 %</td>
</tr>
<tr>
<td>Other Ingredients</td>
<td></td>
<td>37.16 %</td>
</tr>
</tbody>
</table>

Present as an impurity in the clay component of this product:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>0.1 - 0.501 %</td>
</tr>
</tbody>
</table>

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.

Inhalation: No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.

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: No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.

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: No applicable data available.

Specific hazards: Not a fire or explosion hazard.

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

Further information: Do not allow run-off from fire fighting to enter drains or water courses.

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. Wear 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.
## Accidental Release Measures

No applicable data available.

### 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.

#### 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. 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

#### Personal protective equipment

**Skin and body protection**
- Applicators and other handlers must wear:
  - Long sleeved shirt and long pants
  - 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.

#### Exposure Guidelines

**Exposure Limit Values**

<table>
<thead>
<tr>
<th>Compound</th>
<th>AEL *</th>
<th>(DUPONT)</th>
<th>Limit</th>
<th>Exposure Period</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aminocyclopyrachlor</td>
<td>5 mg/m3</td>
<td>8 &amp; 12 hr. TWA</td>
<td>Respirable dust.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aminocyclopyrachlor</td>
<td>10 mg/m3</td>
<td>8 &amp; 12 hr. TWA</td>
<td>Total dust.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metsulfuron methyl</td>
<td>10 mg/m3</td>
<td>8 &amp; 12 hr. TWA</td>
<td>Total dust.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Sodium carbonate
AEL *(DUPONT) 5 mg/m3 8 & 12 hr. TWA Total dust.

Titanium dioxide
Permissible exposure limit: (OSHA) 15 mg/m3 8 hr. TWA Total dust.
TLV (ACGIH) 10 mg/m3 TWA
AEL *(DUPONT) 10 mg/m3 8 & 12 hr. TWA Total dust.
AEL *(DUPONT) 5 mg/m3 8 & 12 hr. TWA Respirable dust.

* 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: granular
- Color: cream, light tan

**Odor**
- Odor: slight
- Odor threshold: No applicable data available.

**pH**
- pH: 5.7

**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.
Bulk density : 0.56 mg/l
Water solubility : dispersible
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 : No applicable data available.
Conditions to avoid : None reasonably foreseeable.
Incompatible materials : No materials to be especially mentioned.
Hazardous decomposition products : No applicable data available.

SECTION 11. TOXICOLOGICAL INFORMATION
DuPont™ Streamline® Herbicide
Inhalation 4 h LC50 : > 5.18 mg/l, Rat
Dermal LD50 : > 5,000 mg/kg, Rat
Oral LD50 : > 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 : Animal test did not cause sensitization by skin contact., Mouse

Titanium dioxide
Repeated dose toxicity : Oral
   Rat
   NOAEL: 1,000 mg/kg
Method: OECD Test Guideline 408
No toxicologically significant effects were found.

Carcinogenicity : Not classifiable as a human carcinogen.
Overall weight of evidence indicates that the substance is not carcinogenic.

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

Reproductive toxicity : Animal testing showed no reproductive toxicity.

Teratogenicity : Animal testing showed no developmental toxicity.

Aminocyclopyrachlor
Repeated dose toxicity : Oral
   Rat
   - 90 d
NOAEL: > 1,045 mg/kg
Method: OECD Test Guideline 408
No toxicologically significant effects were found.

Carcinogenicity : Not classifiable as a human carcinogen.
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
Reproductive toxicity: No toxicity to reproduction

Teratogenicity: Animal testing showed no developmental toxicity.

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

- Oral Rat
  - Reduced body weight gain, Organ weight changes, Liver
- Dermal Rabbit
  - Skin irritation

Carcinogenicity: Not classifiable as a human carcinogen. Did not show carcinogenic effects in animal experiments.

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: No toxicity to reproduction
  Animal testing did not show any effects on fertility.

Teratogenicity: Animal testing showed no developmental toxicity.

Sodium carbonate
Repeated dose toxicity: Inhalation Rat
  - Respiratory tract irritation

Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Evidence suggests this substance does not cause genetic damage in animals.
Reproductive toxicity : Animal testing showed no reproductive toxicity.
Teratogenicity : Animal testing showed no developmental toxicity.

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

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity
Titanium dioxide

<table>
<thead>
<tr>
<th>Test Duration</th>
<th>Endpoint</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 h</td>
<td>LC50</td>
<td>Pimephales promelas (fathead minnow) &gt; 1,000 mg/l</td>
</tr>
<tr>
<td>72 h</td>
<td>ErC50</td>
<td>Pseudokirchneriella subcapitata (green algae) &gt; 100 mg/l see user defined free text</td>
</tr>
<tr>
<td>72 h</td>
<td>NOEC</td>
<td>Algae 5,600 mg/l see user defined free text</td>
</tr>
<tr>
<td>48 h</td>
<td>EC50</td>
<td>Daphnia magna (Water flea) &gt; 100 mg/l OECD Test Guideline 202</td>
</tr>
</tbody>
</table>

Aminocyclopyrachlor

<table>
<thead>
<tr>
<th>Test Duration</th>
<th>Endpoint</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 h</td>
<td>LC50</td>
<td>Oncorhynchus mykiss (rainbow trout) &gt; 122 mg/l OECD Test Guideline 203</td>
</tr>
<tr>
<td>96 h</td>
<td>ErC50</td>
<td>Anabaena flos-aquae (cyanobacteria) &gt; 119 mg/l OECD Test Guideline 201</td>
</tr>
<tr>
<td>48 h</td>
<td>EC50</td>
<td>Daphnia magna (Water flea) 43 mg/l OECD Test Guideline 202</td>
</tr>
<tr>
<td>90 d</td>
<td>NOEC</td>
<td>Oncorhynchus mykiss (rainbow trout) 11 mg/l OECD Test Guideline 210</td>
</tr>
<tr>
<td>21 d</td>
<td>NOEC</td>
<td>Daphnia magna (Water flea) 6 mg/l OECD Test Guideline 211</td>
</tr>
</tbody>
</table>
Metsulfuron methyl

96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 150 mg/l
72 h EC50 : Anabaena flos-aquae (cyanobacteria) 0.066 mg/l
14 d EC50 : Lemna minor (common duckweed) 0.00036 mg/l
48 h EC50 : Daphnia magna (Water flea) > 120 mg/l

Sodium carbonate

96 h LC50 : Lepomis macrochirus (Bluegill sunfish) 300 mg/l
48 h LC50 : Ceriodaphnia dubia (water flea) 200 - 227 mg/l
4 d : EC50 Daphnia magna (Water flea) 228 - 297 mg/l

Environmental Fate

Sodium carbonate

Biodegradability : The methods for determining biodegradability are not applicable to inorganic substances.
Bioaccumulation : Does not bioaccumulate.

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. 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 : 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 : 3077
- Proper shipping name : Environmentally hazardous substance, solid, n.o.s. (Metsulfuron methyl)
- Class : 9
- Packing group : III
- Labelling No. : 9MI

IMDG

- UN number : 3077
- Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metsulfuron methyl)
- Class : 9
- Packing group : III
- Labelling No. : 9
- Marine pollutant : yes (Metsulfuron methyl)

Not regulated as a hazardous material by DOT. Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA special provision A197, and ADR/RID special provision 375.

SECTION 15. REGULATORY INFORMATION

Other regulations : This Safety Data Sheet is for a pesticide product registered by the US Environmental Protection Agency (USEPA) and is therefore also subject to certain labeling requirements under US pesticide law (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 the mandatory hazard information required by USEPA on the pesticide label:

CAUTION!
Causes moderate eye irritation. Do not get in eyes or on clothing. Avoid breathing dust or spray mist.

SARA 313 Regulated Chemical(s): This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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, Sodium sulphate

EPA Reg. No.: 352-848

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.

SECTION 16. OTHER INFORMATION

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

Revision Date: 06/18/2015

Contact person: DuPont Crop Protection, Wilmington, DE, 19898, 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.

Significant change from previous version is denoted with a double bar.